Correspondence — B

~~NOTES~~ CLASS 'B'

MYSORE GOVERNMENT SECRETARIAT 14151

File No. PWD 16/6 PWD 32

Department of PWD

Section Minor Irrigation Tanks

Subject : Bangalore Water Supply & Re-Conditioning

References : LTA 176 Tiny 66 [PWD 51 GWS 66 PWD 34 LWS 65]

Date	To whom sent	Notes and instructions
		CLASS 'B'
		H.M.A.D. (ML-A) No. NF-124 Date. S.F. 474
4 R. Salya	3C/4	
3-10-62 / 4-12-65		R.N. Shastri S.O. 26-3-65
		4D

PWD 141 GTW 62 - 1

Mysore Government Secretariat

File No. of 196 . [App. F. III 2

Serial No.

Letter No PHG/23/WSB/62-63 dt 20.9.62 from the CE (B) Bangalore Report on the Arkavathi, Shimsha and Cauvery Schemes

1 It was desired by the Minr for P.W. on 29.9.62 that a cabinet note on this subject might be put up, so that it may be discussed in the cabinet meeting to be held on 4-10-1962.

2 Accordingly, a draft of the cabinet note is put up for appl.

1-10-62
K. B. MURARAPPA,
Deputy Secretary to Govt., PWD

Secy PW&E

Minr for P.W.

C.S.

3 So far as the technical aspect of this case is concerned, the Chief Engineer has now definitely recommended the dropping of the Hallimala Scheme and two alternatives are clearly stated, namely, Shimsha-Cauvery and Cauvery alone. Both these schemes are attractive and the cost difference

ARY 29/1187 2 Affairs & E.D. Dept.

Note.—Contn. Sheet

between the two schemes is very little. There would therefore be no objection in going in straightaway for the Cauvery Scheme.

The main point however is regarding the financing of this scheme. In the Third Five Year Plan there is only a provision of Rs 15 lakhs made for long range water supply for Bangalore. The cost of the Cauvery Scheme is estimated at Rs 12.9 crores and if the scheme is to be effective we must see that this is completed within about four years time, that is to say, within the Third Five Year Plan itself. I understand that the Minister had written a D.O. letter to the Central Minister for Health and that a reply is given at no additional finance can be made available for e long range water supply. The main point therefore ll be to force the hands of the Government of India d obtain an allotment of a minimum of Rs 10 crores r the scheme. Alternatively, we will have to be rmitted to float a loan for this purpose. There no question of delaying the scheme any longer and therefore the matter may be taken up in Cabinet specifically with reference to the question of finance.

This case may kindly be marked to the Minister for Finance and the Minister for Municipal Administration before the Cabinet Note is approved.

1.P.W.) 5/10

This case may now be processed without any delay. I want to see that it is included in the agenda of the next Cabinet meeting. H. Kalle 5/10

OFFICE OF THE MINISTER FOR FINANCE NO 554 5 OCT 1962 BANGALORE

SECRETARY TO GOVERNMENT 5 OCT 1962 PUBLIC WORKS & ELEC. DEPT.

WD-010154-GPB-PZS-18,00,000-1-10-61

Serial No.

7 ~~Secy PLM~~ } for approval
Dy Secy 7.1 } of the draft
(Mr. B Karath) } Cabinet Note.

5/10

8 Within a week we are placing a note before the Cabinet regarding the grave financial position. It is desirable that this is discussed after the Cabinet consider the note re: financial position. In addition to the loans we are floating annually for implementing the plans it may not be possible to float a separate loan to finance this huge scheme.

A. M. S.
6/10

7.5

6/10
M. VEERARAJ URS.
Addl. Finance Secretary.

Secy PLM

SECRETARY TO GOVERNMENT No. GI 1187 5 OCT 1962 PUBLIC WORKS & ELEC. DEPT.
SECRETARY TO GOVERNMENT 7304 6 OCT 1962 MUNICIPAL ADM.
OFFICE OF THE ADDITIONAL FINANCE SECRETARY 7262
SECRETARY TO GOVERNMENT 10 OCT 1962 MUNICIPAL ADM.

Note.—Contn. Sheet

File No. PWD 141 GTW. of 1962

Mysore Government Secretariat

	Serial No.
Shri Fernandes Secy PWD — 10/10/62	9
Secy, P.W.D.	
Send Cabinet Note to the Cabinet Secretariat. The note of PD may be taken into consideration when timing this item on the Cabinet Agenda — 10/10	10
Sri. M. B. Shetty D.S. (GAD) — 19/10/62 K. B. MURARAPPA, Deputy Secretary to Govt., PWD (Irrgn.)	
For orders as to include the subject in the agenda for the Cabinet meeting on 17.10.62 — 10/10/62	11
To C.S. — 11/10	
CM	
Include — 10/62	

OFFICE OF THE CH... No. 3939 11 OCT 1962 BANGALORE.

DEPUTY SECRETARY No. 10/8 GENERAL ADMINISTRATION DEPTT.

MYSORE GOVT. SECRETARIAT No. C.278/62 11 OCT 1962 G.A.D. (COUNCIL SECTION)

C.278/62.

5

Extract from the Proceedings of the Thirty-seventh *Meeting of the Council of Ministers held at Bangalore on* 19th October 1962.

SUBJECT:- C.278/62.

Long Range Water Supply Scheme to Bangalore.

DECISION OF CABINET.

14. Resolved to approve the Scheme from Kaveri alone to get the ultimate requirement to 60 M.G.D. to Bangalore City, with a single rising main of 72" diameter.

Clauses 2 and 3 of the para 8, are approved.

(SD)- S.NIJALINGAPPA,
19-10-1962,
CHIEF MINISTER.

Secy., P.W.D.

5) (A copy of orders issued on the decision, may please be sent to the Cabinet Section for record).

SECRETARY TO GOVERNMENT
19 OCT 1962
WELFARE DEPT.

"EXTRACT"

Deputy Chief Secretary to Government.
G.A.D.

19.10.62

Mysore Government Secretariat

File No. PWD 141 GTWG of 196

[App. F. III 2

Serial No. 1

16. The Cabinet has approved the Cauvery Scheme for the long range water supply to Bangalore. In order to make this decision effective, funds will have to be found. The Govt. of India would have to be approached with the Scheme and a special adhoc grant at least to the extent of Rs. 10 crores in the Third Five Year Plan will be required. Presumably the P.L.M. Dept. will take follow up action on the Cabinet decision, and take up this matter with the Government of India in consultation with the F.D.

Secretary, P.L.M.Dept.)

P. J. FERNANDES,
Secy., P.W. & Elecy.

17. PWD draft letters have been put up. F.D. may see the letters before issue which may be scrutinised by P.W.D. T.C.

20/10/

Plans & estimates will be obtained from PWD before the letter is despatched.

DS

18 PWD

20/10/62
K. MURARAPPA,
Govt. PWD (Irrgn.).

19 DS
F.D. Draft letter to Govt. of India may issue.

20.

21. Minister (MA)

22 7/11/62

K. PUTTASWAMY,
Minister for Municipal Administration

Minister for Health

Chief Minister

23

C.M.S.No. 4372
MH(F) 2006
29 OCT 1962
BANGALORE
4362
20 OCT 1962
P.H. LAB & MUN. ADMN. DEPT.
SECRETARY TO GOVERNMENT
No. 391187
19 OCT 1962
PUBLIC WORKS & ELEC. DEPT.
651
20 OCT 1962
BANGALORE
1211
EN. DEPT.
DEPUTY SECRETARY TO GOVERNMENT
No. 0397
20 OCT 1962
(P. L. M.) DEPARTMENT

Note.—Contn. Sheet

PWD 141 GTW 62

File No. (PLM 114 GC 62) of 196

Mysore Government Secretariat

Serial No.

(Scan PLM)

Letter No.

PLM 14 GC 62 dated 5.11.62

A letter has been addressed to the Ministry of lth, Govt. of India, regarding Long Range Water ply Scheme to Bangalore. Please see letter dated 1-62 (Flagged 'K'). In this letter, Govt. of India been requested to provide the cost of the scheme ounting to Rs.12.98 crores in the shape of grant and an in equal proportions. The file may now be subtted to the Chief Minister to address a letter to Health Minister, Govt. of India, for assistance g given immediately to the State Govt. in order ee that the scheme is pushed through expeditiously. r a communication is sent to the Health Ministry he Chief Minister, the file may kindly be returned P.W.Deptt.

(H.L.Lingaraj Urs),
Deputy Secretary to Government,
PLM Deptt.

vate Secy. to the Chief Minister.

Draft is placed below.

Let us see me tomorrow.

7/11/62

SECRETARY TO GOVERNMENT 2 NOV 1962 P.W. LABOUR & MUNICIPAL

MYSORE GOVT. No. 6807 5 NOV 1962 P.W. LABOUR & ML. ADM. DEPT.

6 NOV 1962

WD-010154—GPB—PZS—8,00,000—1-10-61

Serial No.

4475

28 CM had discussed this with Secy. P.L.M. & As decided during the discussions, the file is returned for a revised draft letter

13/11/62

Secy. P.L.M.

29 A slightly modified letter is put up for approval by Chief Min.

P.S. to CM 17/11

17/11/62

M. S. SHAMANNA
Secy, Public Health, Law and Leg.

CM

30 File is returned for slight modification of the draft to include total cost of stage II also

19/11

Secy P.L.M.

31 This was discussed with DS PW Irrigation Sri Muraraappa. He said that the total cost of the scheme is 12.98 Crores only. Hence the diff is all right.

32 PS to C.M. 21/11

21/11

Secy P.L.M.

33 Muraappa
Dy Secretary
D.S. P.L.M.

4195
30/11
Given to my the Secy P.L.M.

34 Letters issued to Dr Sushila Nayar, Prof Mahalanobis, V.K. Krishnamenon, C.M. Trivedi, Jawaharlal Nehru, Srimannarayan, Pattiraman, G.L. Nanda, T.T. Krishnamachari, Dr Nayar

Note.—Contn. Sheet

No. 4522 & 4523-38

13 NOV 1962
DEPUTY SECRETARY TO GOVERNMENT No. 11547 1 DEC 1962 (P. L. M.) DEPARTMENT
SECRETARY TO GOVERNMENT 8194 17 NOV 1962 P. H. LABOUR & MUNICIPAL ADM.
OFFICE OF THE CHIEF SECRETARY TO GOVERNMENT No. 4690 27 NOV 1962 BANGALORE
SECRETARY TO GOVERNMENT 8194 30 NOV 1962 MUNICIPAL ADM.
SECRETARY TO GOVERNMENT 2 0 NOV 1962 MUNICIPAL ADM.

File No. PWD. 141 GTW62 of 196 .

Mysore Government Secretariat

Serial No. 34

This may be awaited till the receipt of reply from the Govt of India in the matter.

7/12/62

10-12-62

For favour of perusal of the letters addressed by CM

35

Minr for P.W

15/12/62

K. B. MURARAPPA,
Deputy Secretary to Govt., PWD (Irrgn.).

12/12

INTERIM
Minister for Public Works

19/12

19/12

OFFICE OF THE MINISTER FOR PUBLIC WORKS
No. 091
17 DEC 1962
BANGALORE

SECRETARY TO GOVERNMENT
No. GD 1331
13 DEC 1962
PUBLIC WORKS & ELEC. DEPT

Shri G
19/12/62

Long range water supply to Bangalore

Mysore Government Secretariat

File No. of 196 [App. F. III 2

12

Serial No.

C. 278/62.

SECRET

Cabinet Case No. C. 278/62.

Date 16-10-62.

FOR CONSIDERATION AT
A MEETING OF THE CABINET

36

Cabinet Note circulated for information

Dy. Secy
GAD.

16.10.62

Chief Minister,
All Ministers.

No. 1027
Date 22/1
FIN. DEPT.

37

D.S F.D wants this file please

22-1-63

DS

Sri N.S. Blank
DS F(A)

22/1/63

Note.—Contd. Sheet

File No. of 196

Mysore Government Secretariat

Serial No. 38

The long range Scheme is expected to cost about Rs 13 crores. But actually when the work is taken up the cost is likely to go up by atleast 30% in view the increasing cost of labour and materials. This Estimate will just serve the purpose of bringing water to the filters. But no body has investigated whether the existing pipe lines in various parts of the City have capacity to carry additional quantity water and to what extent replacement is needed. Easily distribution system may require Rs 5 to 6 crores. In all the Scheme may go beyond Rs 20 crores or atleast Rs 20 crores. It is not possible to find additional resources to this extent as the resources for the 3rd plan of Rs 450 crores itself falls short of Rs 60 crores. There is also a proposal to construct a water Board. Even if this comes into being it will not be possible to raise this huge amount in the open market. We have to depend on you of India and hence their approval to start the scheme in the III plan so that a major portion of the expenditure may be taken over to IV plan.

J. S. 20/4

WD-010154—GPB—PZS—8,00,000—1-10-61

7

Long Range Water Supply to Bangalore

Mysore Government Secretariat

[App. F. III 2

File No. PWD 141/GTW/62 of 196

12

Serial No.

39 This matter was discussed yesterday in the Meeting with Prof Thacker. It is for the Secretary P.L.M. to take further action. The point raised about providing for distribution etc. has been brought to the notice of Prof Thacker.

17/5/63

G. MATHIAS
Dy. Fin Dept

40 Secy P.L.M

10.5.63

Ur gent

21/5

41 This file belongs to P.W. Dept. and may therefore be returned to that Deptt. So far as P.L.M. Deptt. is concerned, action is being taken separately in file numbers PLM 14/GCS/62 and PLM. 76/GGL/63. A final reply to this Deptt. letter dated 5-11-62 to the Govt. of India regarding approval of the scheme and grant of financial assistance is still awaited. A copy of the interim reply recd. from the Secy. to the Ministry of Health may be seen at flag (D).

42 A copy of the Proceedings of the meeting between the C.M. and Prof. Thacker, Member, Planning Commission on 18-5-'63, placed at flag (E) indicated the latest position and action has to be taken accordingly

Note.—Contn. Sheet

PWD 6/6

K. KHADER MOHIDDIN,
Under Secy., P.L.M. Dept.

7/6

5/6/63

Long range water supply to Bangalore city

File No. of 196

Mysore Government Secretariat

	Serial No.
Letter D.O. No. 422-Secy/63-D-16-63 from the Secy. to Govt. of India, Ministry of Health, New Delhi.	
I have requested Sri. Venkataramu, S.E. (P.H) and Sri H.V. Gundappa, T.A. to C.E.(G) to send immediately four copies of the Cauvery scheme, so that we can send them to the J.S. Ministry of Finance, G.O.I. (Dept. of Economic Affairs). They have promised to send them on Monday, the 10th inst.	43
Received four copies of report on Long range water supply to B'lore.	44
I have placed below the draft D.O. letters for appl.	45
J.S. (D.E.&I.D.) 10.6.63	46

Issue today

WD-010154—GPB—PZS—8,00,000—1-10-61

141 ST WB 2 (Express)

Dated 10-6-63 Ann 3 Book

Long range water supply to Bangalore — Discussion with Prof. Thacker.

Serial No.

47 paras 76 to 78 of file PWD 77 GTW 61 and page 85 of 7 that file, may be taken on to this file and action pursued vigorously

20/6

Shri G
20/6/63

Extract of Chief Minister's Note in File No. PLM 76 GGL 63.

---

48 "The letter may go. About 3 days back a high placed officerof the Health Department, Govt. of India, Shri Rajgopal discussed this Project with me when our own officials were present. He has requested that the entire scheme of supply, distribution and drainage may be worked out in all details and submitted to them. This may be done before Prof. Thacker comes to Bangalore within possibly about 10 days. This is very urgent and should be immediately attended to.

A

Id. S.N.
Chief Minister,
Dt. 17-6-63.

49 I think some action has already been taken up in regard to 'A' above.

Let me know the position immediately.

Id. Chandappa Patel,
19-6-1963.

Note.—Contn. Sheet

16 Long range water supply to Bangalore - Big Cusin [illegible]

File No. of 196 . Mysore Government Secretariat

Serial No.

Discussed with the Secy.PW&E. The proceedings of the meeting held in the chambers of the CM on 18-5-1963 have already been sent to CE. There it was stated that the details of the schemes relating to distribution and drainage should be ready by August 1963.

The Secy. wanted to know the pendency of the proposal about the revival of the Long Range Water Supply Division for taking up the above works. This will have to be persued. 51

Id . K.B.M.

20-6-1963.

With regard to issue 52 as para 51 above separate action is being taken by the Services Section in their file No PWD 76 SCE63.

A draft letter is 53 sent to CE (G) engineering to intimate about the working details re to supply distribution and drainage scheme.

28/6/63

28/6/63

WD-010154—GPB—PZS—8,00,000—1-10-

V141 ST WB2 3/6

2.7.63

Long range water Supply scheme Bangalore — Discussions with Prof. Mackenzie Member Planning Commission

Mysore Government Secretariat

File No. of 196 [App. F, III-2

M.S

Serial No.

34 It is understood that a meeting is proposed to be held in the Chambers of the Chief Min tomorrow the 6th instant at 9 A.M. in Connection with the Long range water supply scheme to Bangalore. and Secy PWD has been requested to be present at the time of meeting. Professor M.S Mackenzie Member Planning Commission will also be present

55 5/7/63 The above Meeting could not take place.

N. 5/7

56 Same has been dropped up

Note.—Contn. Sheet

Issued N. 141 9TW62

9-7-63

9/7

Pf 17 Large range water Supply:

File No. Discussion of 196 .

Mysore Gover
Secretari

Serial No.

57 Resubmitted after
liaising with reference to
Para 56 NF

9/7/63

WD-010154—GPB—PZS—8,00,000—1-10-61

58) D.O. Letter No HLH 16(8)/62 of 73 D. 8.8.63 from the Planning Commission New-Delhi

59) The letter D. 8.8.63 from the Chief Health Planning Commission is of a general. As envisaged in the first para of the letter, a Contact Board has been proposed to be formed and the GO is under issue vide file No PWD 81 GTW63. Action will now have to be taken on all the points raised in the letter and the enclosed note, by the Several authorities concerned. The main issue now is to get the clearance from the Govt of Madras before the water is tapped from the Cauvery river, as the Govt is bound by the old agreement in regard

19. Longs range water supply scheme -
PWD 141 GTW 62

to the sharings of Cauberys waters.
OSD may see for remarks

17/8/63 60) W.r to Secy. PWD's minute on the p.u.d. A reply to Dr. Shashagiri Rao will be put up on return of the file from the O.S.D.

17-8-63 61) O.S.D may put see for urgent remarks re: getting clearance from Madras Govt.

O.S.D.

19/8

MYSORE GOVERNMENT SECRETARIAT
No. 3804
20 AUG 1963
P. W. D. (BUILDING SECTION)

62) My personal opinion is that we are not bound to approach Madras Govt. in respect of Water Supply schemes since the existing agreements are only in respect of irrigation works. However, the matter has been referred to L.D. Two opinions but they have not yet indicated the same.

Under the circumstances, we may

Long range Water Supply Scheme.

26

...re Government Secretariat

File No. PWD 141 GTW62 of 196 .

Serial No.

D.O.No. PL/7/76 G 61163 dated 22-8-63 from the Under Secretary to Govt. P.L.N.D.(L 63)

[illegible] in [illegible] that the question of obtaining clearances from [illegible] does not arise in the case of this Water Supply Scheme.

[illegible] scrutiny [illegible] the [illegible] Dr. [illegible] [illegible] [illegible] [illegible] which [illegible] to be [illegible]:

Portion [illegible]: [illegible]

[illegible]

[illegible]

Note.—Contn. Sheet

Long range water Supply scheme.

gi

File No. PWD 141 GTW62 of 196 .

Mysore Government Secretariat

Serial No.

[illegible] paras 23+25 of L.F.α

[illegible] ✓ [illegible]

[illegible] It was urged our estimate should be based on steel pipes.

[illegible] pipes. [illegible]

[illegible] is review [illegible] provide G.O. dated 19.8.63 in L.F.

[illegible]

Long range water supply scheme.

2

Mysore Government Secretariat

File No. PWD 141 GTW 62 of 196

[App. F. III 2

Serial No.

[illegible] within the control [illegible] vide 42-44 of L.F.7 [illegible] be appointed [illegible] of a number of [illegible] sub-committees. It is for [illegible] of the following: [illegible] or [illegible], [illegible], [illegible], [illegible] of the Ministry of Health.

Portion sidelined 'B' of L.F.8: [illegible] 26

Portion sidelined 'A' of L.F.8

[illegible] 21.3.62 [illegible] 10 years. [illegible] 30 years [illegible] project [illegible] reportedly [illegible] further discussed [illegible] it [illegible] as now here [illegible] be [illegible] such [illegible] be [illegible] [illegible] project [illegible] 30 [illegible] [illegible] 10 [illegible] [illegible] 30 [illegible] [illegible] 10 [illegible]

8

Note.—Contn. Sheet

23 Long range water supply Scheme

File No. PWD 141 GTW 62 of 196 .

Mysore Government Secretariat

Serial No.

possible to phase the pipelines in, & it seems two stages.

23.5 λ

λ File No. PWD 68 GTW 63 Limited.

Long range water supply Scheme

Mysore Government Secretariat

File No. PWD 141 QTW 62 of 196

[App. F. III 2 24

Serial No.

64) [illegible] various points raised in [illegible] letter [illegible] please be noted that we have already formed a Control Board with a technical sub-committee also - vide [illegible] dated 18.[illegible].1963 in L.F. (Flag 'B'). We may have to include [illegible] some of the expert advisers, as members of the Board. Regarding formation of Water Resource Board, P.H. Department has approached the Ministry of Health, Government of India to legislate an Act of Parliament [illegible] State Governments to form such Boards.

60 1

65) A draft reply on behalf of [illegible] is placed below.

22/8/63

(S. [illegible]),
Chief [illegible],
Public [illegible]
(P.H.D.)

Secretary, P. [illegible] D.)

Chief Secretary.)

66) 1. Consent of Sri M. V. Modak was to be obtained for his being appointed as a member of the Control Board. Has he been addressed in the matter?

67) 2. The implied suggestion of Dr Rao/Member(E) to that ~~one~~ a representative of C.W.P.S.

Note.—Contn. Sheet

Mysore Government Secretariat | File No. of 196 . 3804/1963 | [App. F..III 2

Serial No.

70) Discussed.

71) It was decided that—
1) Mention should be made about Member (E) in the draft letter &
2) Action to appoint Mr. Modak as a member should be taken separately.

Amended draft is placed below.

24/8/63

S. G. BALEKUNDRY,
Officer on Special Duty,
Public Works Department.

Secy

72) O.S.D.'s note from paras 63 to 65 may kindly be seen. A draft reply has also been suggested.

73) There will be one or two names added in the Control Board. If C.S. has no objection, his name will also be included

C/S.

SECRETARY TO GOVERNMENT
No. I 1655
26 AUG 1963
PUBLIC WORKS & ELEC. DEPTT.

CHIEF SECRETARY,
No. 8912/63
26 AUG 1963
GOVERNMENT OF MYSORE

Note.—Contn. Sheet

File No. PWD 32 BR 63 of 196

Mysore Government Secretariat

Serial No. CS-8912/63.

C.M.S. No 4815/63

74) Draft reply for approval (esp. para 6). Perhaps it is not necessary that the Chief Secretary should be a member of this Board.

C.M.

R. BALACHANDRAN,
Chief Secretary to Government

SECRETARY TO GOVERNMENT
No. G.P. 1667
29 AUG 1963
PUBLIC WORKS & ELEC. DEPT.

CHIEF SECRETARY,
No. 9074
29 AUG 1963
GOVERNMENT OF MYSORE

75) C.S. may be a member. The reply may be sent. But we must be ready with all details of the scheme worked out as advised by Prof. Shaker, very early.

28/8/63

S. NIJALINGAPPA
Chief Minister

76) Issue & return file to P.W.D. for early action as ordered by C.M.

29/8

Secy. (PWD)

Fair Copy placed below.

29/8.

Issued on 30-8-63

67/OSD
2-9-63

29/8

~~DS~~
O.S.D.

77) Action to appoint C.S., Mr. Malak, Mayor & Commissioner is being pursued on a separate file.

78) In view of Lr. dated 18.7.63 @ P. 76 C.F., it is necessary to address C.E. (G.). A draft

Serial No.

Lr. is placed at P-78-79.

2/9/63

Secy.

SECRETARY ... & ELEC. DEPT.

79) CE

6/9

80) Issued on 6-9-63

Sw'n 4/9/63

81) 6/9

Questionnaire for water works projects

82) The questionnaire which was handed over by Dr. Seshagiri Rao during the meeting on 25-9-63 is placed below (P. 84 to 116 cy)

2/10/63

83) The questionnaire from Dr.Seshagiri Rao is highly exhaustive and needs to be replied precisely and expeditiously. Chief Engineer (General) was already given a copy of the same unofficially on the 24th instant. Most of the items pertain to activities of not only the Chief Engineer(General) but also the Bangalore Corporation. Therefore It is proposed herewith to send copies of the questionnaire to following:

1) Chief Engineer(General)
2) Corporation Commissioner,
3) B. L. M. Department

Note.—Contn. Sheet

29

File No. PWD 32 BRA 63 of 196

Mysore Government Secretariat

Serial No.

The Chief Engineer will be asked to compile all the replies in consultation with the rest of the authorities.

*Draft letter to the C.E.(G) is placed below. (84 * page 117 c.f

(S.G.Balekundry),
Officer on Special Duty,
Public Works Department.
(3.10.1963)

PWS 100.

Secretary, P.W. & E) (85 TS) 5.10.63

ISSUED ON 7-10-63 (86

Reminder issued on 16-10-63 to (87
letter at page 80 c.f

Integrated water supply and Sanitation to Bangalore city

Mysore Government Secretariat

File No. 112 GTW of 1963. App. F. III 2

30

Serial No.

Letter No BWSS/Tech C.1/63-64 Dt 1.10.63 from the CE (G) Bangalore.

88) The letter Dt 1.10.63 at page 1 cf is for perusal.

89) Govt of India have addressed in the matter vide this office letter Dt 1.10.63 at page 7 cf. and the file may be submitted to Min for PW and Chief Min for perusal.

Issued in No. PWD 112 GTW 63
Dated 1/10/63

3/10/63

90) The letter addressed to the Secretary to Govt. of India, Ministry of Health, New Delhi with regard to Integrated water supply and sanitation scheme to Bangalore city, at pages 7-9 cf, is for favour of perusal, after issue

(X) Flag 'C'

3.10.63
K. B. MURARAPPA,
Deputy Secretary to Govt., PWD (Irr.)

Min for PW / C.M.

91) V. Gowda 8/10 5/92 Pl. send the C.E. (Gen) with educated note

(VEERENDRA PATIL),
Minister for Public Works.

(PWD-Irrgn)

OFFICE OF THE MINISTER FOR PUBLIC WORKS
NO. 2243
3-OCT 1963
Note.—Contn. Sheet
BANGALORE.

6192

Pws198

Integrated water supply and Sanitation Scheme to Bangalore City

File No. PWD 112 GTW 63 of 196

Mysore Government Secretariat

Serial No.

Letter No PHG/LRWS/Br IV/63 64 dt 11.10.63 from the CE (G) Blore.

7 Submitted with reference to Government letter No. PWD 112 GTW 63 dated 1-10-1963. The comprehensive scheme for the water supply and sanitation for Bangalore City at an estimated cost of Rs.26 crores was forwarded to the Government of India for their approval. In Order to expedite, The Chief Engineer (General) was also deputed to Delhi with the detailed plans and estimates. Orders sanctioning the deputation of the C.E.(Gl) to Delhi were issued from Services Section. (93

8 The C.E.(Gl) accordingly visited Delhi and has furnished a report to Govt. on his return from Delhi. He has reported that the Ministry of Health has recommended the scheme to the planning commission for Rs.25 crores and technical clearance has also been secured. The C.E.(Gl) also had discussion with the concerned officers in the Ministry of Health and the Planning Commission. (94

Submitted for perusal. (95

17/10/63 12/10/63 (96 18/10/63

O.S.D. Secy (PW&C) (98 21/10

(97 18/10

SECRETARY TO GOVERNMENT PUBLIC WORKS & ELEC. DEPT. No. 18 OCT 1963

Note no. DPC.

Integrated water Supply & Sanitation Scheme to Bangalore.

Mysore Government Secretariat | File No. | of 196 | [App. F. III 2 32 BRA 63] PWD 112 99 N 63

Serial

No.DPC.C.267/63 Bangalore, dated 19th Oct 63.

99) The Chief Minister, the Minister, PWD and the Minister (Dev) will be leaving Bangalore on the 1st of November and will be in Delhi on the 6th and 7th when they will be meeting the Members of the Planning Commission and the Union Health Minister. The Minister (Dev) desires that a brief note be made available to him on the Bangalore Water Supply Scheme with a view to getting funds released by the Union Health Ministry and the Planning Commission. This may kindly be made available by the 25th so that copies could be made available to the Ministers.

OFFICE OF THE OFFICER ON SPECIAL DUTY 19 OCT 1963 P.W.D. SECRETARIAT

19.10.63

M. VASUDEVA RAO,
Secretary to Government, Development, Panchayati Raj and Co-operation Department.

Officer on Special Duty,
(P.W.D Sectt)
(Shri S.G. Balekundry)

100) The Chief Engineer(General) had been to Delhi to get technical clearance and approval of Planning Commission as per our letter dated 1st October 1963 at pages 127 to 129 c.f. On his return, in his letter dated 11.10.1963 at page 130, he has indicated that the Ministry of Health have communicated their technical approval to the Planning Commission and recommended approving the scheme for Rs.25 Crores, as they anticipate some savings in the cost, as a result of competitive bids. The Chief Engineer has indicated that the Planning Commission is taking further action to process it thro

Note.—Contn. Sheet

Irrigation water supply and Sanitation scheme to Bangalore

33

File No. PWD 32 BRA 63 of 196

Mysore Government Secretariat

Serial No.

Finance Department, to facilitate which the Chief Engineer has furnished to them a tentative phasing of the scheme as per table at page 131 c.f. (101

A few days back, this position was explained to the Agent for Mysore in Delhi Mr.Nagendra Bahadur, IAS who has promised to further look into the matter in Delhi.

The Chief Engineer has also furnished a small note giving indication of the present position of this scheme as well as Rural Water Supply Scheme vide page 131 c.f. (102

The Development Commissioner has informed us, at para 99, to prepare a small note to brief our Minister who is going to Delhi shortly to pursue this matter. Accordingly a note is placed at page 132 c.f. (103

24/10/63

(S.G.Balekundry),
Officer on Special Duty,
Public Works Department.

Secretary, P.W. & E.)

A copy of the note may be given to the P.S. to Min. P.W. & Min. (Dev.) (104

SECRETARY TO GOVT. No PWS 733 2 PUBLIC WORKS & E.E.D.

25/10

O.S.D.

Notes sent to P.S. to C.M., M PW & Min (Dev) and Secy to Govt. (Dev) on 29-10-63 (105

Reminder ISSUED ON 1-11-63 to P.W.D. (106

WD-010154—GPB—PZS—8,00,000—1-10-61

Reminder ISSUED ON 6-11-63 to letter dated 6-9-63 & 17-10-63 (107

1/11/63

Serial No.

D.O. No. ME/PS/63-1331, dated 15-10-63 from Shri M.S. Thacker, Member, Planning Commission

Orders of C.M. thereon...

108) "Let us meet the C.E. (G.), Corporation Commissioner, and Trust Board chairman and Corporation of Engineers, tomorrow evening."

Sd/- S.N. 17/10

109) "The meeting took place. It was decided to write to Shri Rajagopalan (Delhi) requesting him to pay a visit to Bangalore to brief us and again accompany the World Bank Team during their visit"

OSD) PWD Sd/- S.V. 23/10

"Secy. may like to see"

Sd/- B. 29/10

110) "There was some questionnaire given to us for getting some information. Please check up whether the same being attended to".

Sd/- Ch. 25/10

Remarks of OSD. PWD ~~[illegible]~~ from PWD [illegible]

111) "C.E. (G.) should supply copies of questionnaire first so that Rajagopalan's visit should be fruitful".

Sd/- S.C.B. 1/11

Note.—Contn. Sheet

35

File No. PWD 37 BR Ad of 196

Mysore Government Secretariat

Serial No.

With reference to para 11, C.E.(H) (112
was reminded on 1-11-63 and again on 6-11-63. No reply has yet been received.

This is submitted as Secy (113
PWD desires to see the prof. Thacker's letter at pages ~~Sorst~~ 133-35 ~~47~~

8/11/63 Shree M.A.N. Iyengar Advisor, (Health) Planning Commission was shown the lr. from Prof. Thacker. He confirmed that this was the letter he was referring to. We were awaiting the replies to the questionnaire from the C.E.(G.) etc. for orders regarding further action.

8/11/63

Secy. (PWD)

We have not taken any action on (114
the letter Dt. 15-10-63 received from Prof. Thacker, Member, Planning Commission. We should have moved the Chief Engineer (Gl.) in continuation of our earlier reference in regard to the information required in connection with this case. This may be done now. A copy of the Note of the discussion held in my room with the

Serial No.

Adviser (Health), Planning Commission and the Secretary, Public Health Dept. is placed in the file. The information furnished therein is based upon the personal knowledge of the Secretary, PLM. Dept. and myself. I suggest that this question should be pursued very vigorously.

115) Shri M.A.N.Iyengar saw me again this evening. He wanted that the questionnaire given to us during the time when Prof. M.S.Thacker had discussion with the Chief Minister has to be filled up and sent to the Govt. of India without further loss of time. The attention of the Chief Engineer may be specifically drawn to this aspect. The Chief Engineer may also be informed that he should be ready for discussion on various points connected with this subject with the concerned Ministry when he visits Delhi for Plan Meeting.

Chauhan
8/11/6

SECRETARY TO GOVERNMENT
PWS...1249
... & ELEC. DEPTT.

O.S.D. (PWD.)

116) D.S. (T.) may send a D.O. reminder to C.E. (C.).

11/11/6

117) Issue

11/11

118) ISSUED ON....11.....1/...63....

Note.—Contn. Sheet

37

Bangalore water Supply Scheme

Mysore Government Secretariat

File No. PWD 32 BRA 63 of 196 .

Serial No.

No. DHD/7462/WS DS/62-a, dated 14-11-63 from the Chief Engineer (General), Mysore, Bangalore

D.O. letter no. BWS Ss/63-64, dated 18-11-63 from the Superintending Engineer (Designs), Office of C.E. (G), Bangalore

119) Pr d 2 - 3 - for perusal. The C.E. has forwarded the replies to the questionnaire and has requested to place this before the Technical Sub-Committee for its meeting to be held on 5-12-63

120) For orders

19/11/63

Since Govt. decides what subjects are to be placed before the Canal Board, the C.E. (G)'s reply on P-140, asking Govt. to approach the Secy. to the Board is improper. A draft to be addressed to him is placed @ P-142 C.F. (121

However, a copy of the draft replies as received from Mr. Venkata Rama, S.E. designs vide P-141 is placed below vide Bound volume. (122

19/11/63

S. G. BA[illegible]

Secy.

WD-010154-GPB-PZS-8,00,000-1-10-61

123) CR 20/11

SECRETARY TO GOVT. No. PWS 1411 PUBLIC WORKS & ELEC. DEPT.

Serial No.

125) At today's meeting of B.W.S.&S.C. Board it was decided to address the G.O.I. Ministry Health and pray permission to go ahead with the execution of scheme with a provision of Rs 50.00 lakhs for 63-64. Draft letter is put up for approval

7/12/63 126) D.S. (I.) May please issue the letter.

7/12/63

S. G. BALEKUNDRY,
Officer on Special Duty,
Public Works Department.

D.S. (I.)

127) Issue

7/12

128) ISSUED ON 7-12-63

D.O. letter No. HLH 16(8)/60, dated 18-12-63 from Dr. M.A.N. Iyengar, Assistant Chief (Health) Planning Commission New Delhi — PWD - Plan 63

129) A draft D.O. letter to the C.E. (Ci.) for the information required by P.C. is placed below.

A copy of P.C.'s letter is being sent to Secy P.L.M. & Secy F.D. for information & necessary action.

Note.—Contn. Sheet

39

File No. of 196 . Mysore Governme Secretariat

Serial No.

During the discussion with the World Bank Team and with Prof.M.S.Thacker, it was agreed that we should proceed with preliminary works such as purchase of pipes for distribution system etc. The Mysore Iron & Steel Works have reported to us that pipes of various sizes costing over a crore of rupees are available for ready delivery. If we do not purchase them in time, it may be difficult to get them later on. Therefore, it was than agreed that we should straightaway initiate action to purchase these pipes. This fact may be represented to the Govt. of India and request them to allocate a sum of at least Rs. 50 lakhs for this purpose. The amount so allotted would be utilised by the end of this financial year by purchasing pipes required for the Water Supply Scheme. A letter may go to the Planning Commission on the above lines. (130)

In regard to the Mangalore Water Supply and Drainage Scheme, I would like to see the relevant papers separately. The same may be put up. (131)

SECRETARY TO GOVERNMENT Pws 2317, 21 DEC 1963 MINS & ELEC. DEPT.

Chand 20/12/63

D/Secy. (I)

pl. put up a draft immediately

O/S (Gpl Inc)

draft is put up for approval 132

21/12/1963

For approval 133

21/12/63

WD 010154 – GPB – PZS – 8,00,000 – 1-10-61

For perusal before issue

Serial No.

D.S. (I)

Issue

23/1

Issued Dated. 30/1

Page 151 cf.

135) D.O. No. HLH 16(8)/60 dated 7th January 1964 from Dr. M.A.N. Iyengar, Asst Chief (Health). — PUD I

136) Letter No. PHG/Br.I/LRWS/63-64, dated 14-1-64 from the Chief Engineer (General) Bangalore — PUD II

137) Issue letter drafted and put up the file to OSD

14/1

138) ISSUED ON 14-1-64

Note.—Contn. Sheet

No. Cm 4/c 48/64

OFFICE OF THE CHIEF MINISTER

NOTE

Dated.. Jan...13,....1964.

139) Chief Minister wants to discuss with Professor Thacker the following two subjects at 11.00 A.M. in his Chambers at Vidhana Soudha on Thursday the 16th January 1964:

1. Bangalore Water Supply Scheme.
2. Sharavathy Third Stage.

140) Secretary, Public Works Department, is requested to contact Officer on Special Duty, P.W.D. and Chief Engineer, Electricity and arrange to get the necessary notes prepared. He may also kindly issue notices to the Ministers and Officers connected with these subjects requesting them to be present at the meeting.

S. Varadan 13/1/64.

(S.Varadan)
Private Secretary.

Secretary, P.W.D.)

LC

141) pl. prepare a brief note on each of the subjects which will be discussed on 16.1.64.

OSD

13/1.

142) A note on Water Supply Scheme is placed at Flg. A. & C.E.'s note on Sharavathy is flagged B.

Secy.

OSD.

Serial No.

(Extracted from page 15(a))

143) "May we discuss."

½ ch

O.S.D.

144) Discussed. It was suggested that C.E. (Ex.) should be requested to furnish to Govt. report about his discussions with GoI & the World Bank etc. A draft letter is placed below.

S. G. BALEKUNDRY,
Officer on Special Duty,
Public Works Department.

pws. 612/1
11.30 a.m.

Secy.

145) 1. The draft may be issued.
2. A reply to the letter at page 15 has to go immediately; draft may be put up based upon the letters at pages 15 to 18 & the information on page 15 3. It should be sent through Secy. by 12 noon on 28.1.64.

V. urgent

Note.—Contn. Sheet

DS/(1) 146) Issue the draft as put up by Secy. 28/1

28/1

ISSUED ON 30.1.63.....

Mysore Government Secretariat

Long Range Water Supply Scheme to Bang

[App. F-III-2]

P&D File No. 32 BRA of 1963

Serial No.

149 Receipt No 195 at pages 163 – 173 C
Receipt No 126 at page 174 CF
The letter and a copy of report of the discussions held with the World Bank authorities are for perusal. Further Communication from them will be awaited. These papers may be submitted to the Secy. P&D & G.S.D.

18/2/64

150 OSD may pl see the report of the CE (Gen) at P. 163 CF.

18/2/64

O.S.D is on tour till 22-2-64.
19/2/64 Supdt Spl.

OSD (P)

151 As OSD is reported to be on tour, it is for if the file may be moved during his D/S.C

19.2.64

152 DS may see. The file will be later referred to OSD (P)

19/2/64

DS

O/D

153 As decided at paras 144-145, C.E.C has now furnished the CD Comments of Min. of Health, GOI, & (2) the gist of

Note.—Contn. Sheet

ore Government Secretariat | PWD File No. 141 GTW of 1962 | [App. F. III 2

	Serial No.	
		Receipt at page No. 181 diary No 413/Spl.
	58	Kindly see D.O letter Govt of India at page 181.
		As per orders of the Secy. P.W.D. a note on the Large Range Water
Flagged A		supply scheme to Bangalore is submitted for perusal at page 7.
		From a perusal of the note it will be clear that the Shimsha scheme is discussed and it is given up on account of the disadvantages the scheme is given up.
A	58	28/3 It is seen from page 7 of the note flag below that Arkavathi Scheme, Shimsha Scheme and Cauvery Scheme are been considered and that Shimsha scheme is not favoured on account of the disadvantages of the scheme (as per portion marked B)
	59	Reference to the orders of the Secy. at page 183 C 7 (PWD)
		28/3/64
	60	Sec desires to know what Shimsha Scheme is? OSD (I) may kindly see if any papers are available with him on that subject Scheme
		30/3/64

Note.—Contn. Sheet

OSD (I)

Long Range water supply scheme to B'lore

Core Government Secretariat

PWD File No. 16/67 of 1962 [App. F. III 2 48

Serial No.

Secy to Secy.

68 This file may now be marked to G.S.D & F.D for reference.

9/4/64

69 The F.D has to be informed of the Sanction of Rs 1.5 Crores concerned by the G.O.D.

As O.S.D (D) had demanded the file to be put up, the file is submitted accordingly.

9/4/64

R. A. RAMASWAMY,
Under Secy., P.W. & Electy. Dept.

OSD (D)

Letter no F.1 (Rly)-5 (WS)/62-P dated 9th April 1964 from the Under Secretary to Govt of India, Ministry of Health New Delhi—P.W.D

71. F.D. may kindly see the letter of the Government of India placed at pages 200 C/F.

(S.G. Balekundry)
Officer on Special Duty,
Public Works Department.

Secy

F.D.

72 A copy of this letter may be sent to them for information.

Ch 16/4

PWS 2681

O.S.D.

16/4

U.S. (C)

P.T.O.

16/4/64

Note.—Contn. Sheet

SECRETARY TO GOVERNMENT
No.
15 APR 1964
PUBLIC WORKS & ELEC. DEPT.

Serial No.

A draft U-O is put up at page 205 C.F. for approval..

73

Pharma 21/4 21/4

74) 21/4/64

75) Issued 27/4/64.

D.O. Letter no. 5-4/62, PHE, dated 28-4-64 from the Deputy Director General, New Delhi — PUD I.

D.O. No. 17-5/64-PHE, dated 2-5-64 from the Deputy Director General (PHE), Directorate General of Health Services, New Delhi — PUD II

76) D.O. letter issued to C-E (Ge) by Secy PWD forwarding a copy of PUD I

SD

PWD 17 LWS 64

ore Government Secretariat | File No. of 196 . | [App. F. III 2

Serial No.

Receipt of page No 1 diary No 617/Spl.

77) The C.E. (G) has stated that when the World Bank team was here for their appraisal of the water supply & sanitation scheme to Bangalore, it is decided that some Consultants may be addressed regarding the design particularly for the prestressed transmission pipeline. Accordingly, the S.E water supply & sanitary circle has submitted a draft letter to be addressed to the Consultants, It is reported that the draft has been prepared in consultation with the World Bank authorities, It is therefore requested that Consultant firms may be addressed in the matter.

78) This may be marked to O.S.D

Hassan 7/5 7/5/64

What firms have to be

Note.—Contn. Sheet

Serial No.

addressed is not mentioned. Perhaps OSD(8) may be in the know of the firms that are to be addressed. May be referred to OSD(8) for remarks

7/5/64

79

DS For perusal and remarks

8/5/64
DS(I)

O.S.D)

80

We have received a list of Consultant Engineers Firms suitable for the purpose vide letter at page 208 c.f. The Chief Engineer has sent a draft letter to be addressed to such firms vide pages 214 to 215 c.f. We may address these firms accordingly. A copy thereof may be sent to -

Mr.Charles A Morse Jr.,
International Bank for
Reconstruction & Development,
1818 H-Street N.W.
Washington, U.S.A.

(S.G.Balekundry)
Officer on Special Duty,
Public Works Department.

Secretary, P.W. & E.)

81

Just now I was informed by the Superintending Engineer, Water Supply & Sanitation Circle that he is sending a small amendment to the draft

Serial No.

letter to Consultants

so as to include two more items for consultation which ~~are~~ reported to have been indicated by the World Bank People to Mr.H.K.Rajaram when he had been to Delhi recently. The amendment may please be included in the draft as soon as received.

82 The S.E. also indicated that there is one more firm in Sweden who could be approached for such consultations as under:

Vattenbygnads Byrån
Byraan,
Humlegaa~~rd~~gattan,
29-Stock~~holm~~
Cables "Vatten"

83 We may also address a letter to them to the above firm.

18/5/64

(B.G.Balekundry),
Officer on Special Duty,
Public Works Department.

Secretary, P.W. & E.

SECRETARY TO GOVERNMENT
No. PWS 3572
18 MAY 1964
PUBLIC WORKS & ELECS. DEPT.

84 D.S.(I).

This may issue today must be posted also. DS(I) should contd this.

Ch
19/5

85 DS(I)

DS(I) should clarify position mentioned on page 2 of this to the should be use at 1st. Ch.
19/5

DS(I)

19/5/64

Note.—Contn. Sheet

53

File No. of 196 . Mysore Government Secretariat

This was discussed with the Secretary. S.E. Sanitary circle. The amendments say points 2 & 3 as read out by the S.E. have been included in the draft and finalised. The typed letters may be issued under the signature of the Secretary P. W.D. Serial No. 86

19/5/64
DS(I).

U.S.)

Issue
19/5/64 87

Issued
Dated 22/5/64

Receipt at page 234 diary no 722/S-64

The Bennie & Partners Chartered civil Engineers London thanked & acknowledged our letter dt 20-5-64. ~~and thanked~~ This may be filed after perusal. 88

89

P.C. Speak
2/6/64

Discussed Please find up with the letter sent recd from C. E (G/L) 90

2/6

3/6/64

Serial No.

Receipt of page no 236 diary no 736/Spl

91 As regards item no 1 of the D.O of the C.E (G) dt 1-6-64 (page 236) it is ~~mentioned~~ submitted that a letter has been issued to all the consultants (vide letter no PWD 141 GTW 62 dt 20-5-64 pages from 219 to 232) and a copy has been sent to world Bank authorities.

92 As regard item no 2 ~~of the D.O~~ regarding the draft Act for formation of the Mysore State water & sewage Board. the file no PWD 132 WS 64 has been (the then G.S.D) submitted to J.S. on 20-5-64.

For orders.

Thasson
3/6

93 Action has already been taken by us to address the Consultants and Copy has also been mailed to Mr Charles A Morse Jr of the World Bank (W.S.A).

94. The draft Act for formation of the Mysore State Water & Sewage Board has been marked to G.S.D (D) now the Joint Session 20.5.64. May be

Note.—Conta. Sheet

PWD 141 GTW 62 29/6/

Mysore Government Secretariat | File No. of 196 . | [App. F. III 2 56.

Serial No.

have to decide our final choice between these two. It is learnt that a representative of M/S. Binnie and Co., would be meeting us on the 19th inst. We may decide the case after the meeting.

98) Regarding other points raised in P.U.D., P.L.M.Dept. has to take action.

16/6/64

(S.G. Palekundry)
Jt.Secretary to Govt.(I.)
P. W. & E.Dept.

Secy., P.W.& E.Dept.)

SECRETARY TO GOVERNMENT No 16 JUN 1964 PUBLIC WORKS & ELEC. DEPT.

99 Binnie's representative met us today at 10:30 A.M. He had a preliminary idea of the scope of consultations. He has programmed to visit our work site with S.E. W.S. Circle.

Mean while two more firms have responded i.e. S.No. (1) & (2) ~~also~~ (both from U.S.A.). Only S.No. (5) i.e. "Tahal" from Israel has not so far responded.

We will send the brochures received from various firms to C.E.(W.) for his remarks.

19/6/64

JOINT SECRETARY TO GOVT. No 20 JUN 1964 PUBLIC WORKS DEPARTMENT

Secy,

yes J. S.

100

22/6

19/6

CHANDAPPA PATEL,
Secy., P.W. & Elecy. Dept.

SECRETARY TO GOVERNMENT No. WS/4417 20 JUN 1964 PUBLIC WORKS & ELEC. DEPT.

Note.—Contn. Sheet

D.E.(I) 23/6/64 23/6/64 P.T.O.

PWD141 GTW62

57

File No. of 196 . Mysore Government Secretariat

Serial No.

A draft letter is put up at page 240 for approval. 101

Issue 23/6/64 102

Issued 24/6/64

Receipt at page No 250 + 252 diary No 910/Spl/64.

Kindly see the minute of the C.M. on the Receipt at page 242. C.F. 103

A draft letter is put up at page 254 for approval. 104

The draft is for appl 8/7/64

Issue 8/7/64

Resubmitted.

SECRETARY TO GOVERNMENT 8 JUL 1964 PUBLIC WORKS & ELEC. DEPT.

Telegram received from Total may see at page 256. 105

The previous papers may be seen at pages from 242 to 246 C.F. (flagge H) 106

WD-010154—GPB—PZS—8,00,000—1-10-61

8/7/64

Say Note.

Serial No.

107 The guillemen has already left

CE
8/7/64

108 Issue letter to 254/C
JCE
9/7/64

issued
dated 10/7/64

Receipt at page no 258 diary no 959/SPC

109 The C.E. (G) has expressed his remarks ~~of~~ in detail on each form and he is of opinion that any one of the following may be approached in the first instance:—

1) Messrs. Binnie & Partners Artillery House, Artillery Row, Westminster, London.

2) Messrs. TAHAL (Water planning) Limited TEL-AVIV Israel.

110 He has also sent a draft letter to be addressed

For orders.

Hasan 2/6/7 10/7

DS(I)

JCE 13/7/64

Note.—Contn. Sheet

59/

File No. of 196 Mysore Government Secretariat

Serial No.

For perusal of CE(GL)'s report regarding the Consultants - for the work of - "Integrated water Supply and Sanitation Scheme to Bangalore" and his recommendation to Consider the two firms who have got vast experience in the line and whose Consultants had Come down to Bangalore already and had discussions with the Concern Engineers of this State and also Studied the Local Conditions, plans and Estimates already Prepared by our Engineers. 111

CE (GL) Suggests to address 112

1) Messrs. Binnie and Partners. London.
2) Messrs Tahal Ltd. Israel.

with the Project report, requesting to indicate the terms for taking up this assignment and has also enclosed the draft letter.

The draft letter Marked vide 113

S14/64

60

Serial No.

page 264 of C/F may be perused and approved for issue along with Project papers.

JOINT SECRETARY TO GOVT. 374/64 20 JUL 1964 PUBLIC WORKS DEPT.

J.S.

PM 20/7/64 DE(I).

114 Draft letter is to be addressed to only one firm which Govt. may approve finally.

Secy

S. G. BALEKUNDRY,
Jt. Secy., P.W. & Elec. Dept.

SECRETARY TO GOVERNMENT No. 5 30 1964 WORKS & ELEC. DEPT.

Min.

115 I have suggested to C.E. (G) to place this matter before the Technical Sub-Committee which should examine & recommend which of the firms should be selected as consultants

Contn. Sheet

Mysore Government Secretariat

PWD 141 GTW 62 File No. of 196 . [App. F. III 2

Serial No.

Receipt at page No 270 diary No

121 orders of the secy. P.W.D. as follows.

previous paper today.

Sd/- 11/8

Secy P.W.D

122 The P.W.D. is submitted with reference to para 96 ante.

GOVERNMENT 5048 11 AUG 1964 PWD WORKS & ELEC. DEPT.

11/8 11/8

11-8-64

Secy (WD)

11/8/64 DS (I)

123 The representative of the firm can see me today at 12 noon. C.E. (G) may be requested to be present during the interview.

CE 12/8

Urgent

124 DS (I) CE (G) has been informed in person to be present at the time of interview

12/8/64 DS (I)

P.A to Secy. P.W.D)

Note.—Contn. Sheet

Mysore Government Secretariat

PWD/141/GTW 62

File No. of 196 .

[App. F. III 2

Serial No.

Receipt at page Nos 276 & 278/~~Spl/64~~ and diary Nos 1186 & 1187/Spl/64

129 The C.E. (G) has sent a draft letter to be addressed to M/S Tahal, Israel, consultant with reference to the decision of the meeting of the Water Supply and Sanitation Control Board held on 14-8-64. (Proceeding of the Meeting may be seen at page 278 C.F.)

130 The draft letter placed at page 276/1 may be approved

Nagaraj 19/8

P.W.D.

131) The Chief Engineer has reported that the Water Supply and Sanitation Control Board have decided to invite M/S. Tahal, Israel for negotiations prior to appointment of Consultants to the above project. Accordingly he has also sent enclosed a draft to be addressed to the firm

The draft as proposed by the Chief Engineer may be accepted.

Vide page 276/1 C.F.P.

20/8/64

14/21/8/64

D.S.(I)

Note.—Contn. Sheet

65

File No. PWD 141 GTW 62 of 196 .

Mysore Government Secretariat

Serial No.

The proceedings of the fifth meeting of the Water Supply and Sanitation Control Board held on 14-8-64 placed in pages 278/1-4 may kindly be perused. The Board has decided to invite M/s Tahal(Israel) for negotiations for appointment as consultants in view of their experience in the design of both steel mains and prestressed concrete cylinder pipe mains for very high capacity pumpsets, etc., 132

The C.E.(Gen) has forwarded a draft letter addressed to M/s Tahal(Israel), Ltd., for perusal and issue which may be seen in pages 276/1-2. The letter may be perused and approved for issue. 133

22/8/64.
(M.Channappa)
Dy.Secy. to Govt. PWD(I).

SECRETARY TO GOVERNMENT
PWD/5330.
22 AUG 1964
PUBLIC WORKS & ELEC. DEPT.

Secy.PWD.)

22/8/64

134

24/8/64.

ISSUED
Dated 27/8/64

Receipt of pages 280 & 282 diary No 1233 & 1246/Spl

As the letter has already been issued to Messrs. Tahal of Israel, the two letters are submitted for perusal. 135

pages 280 & 282 D.O.

27/8/64.

28/8/64

D.S (I) 28/8/64

WD 010154—GPB—PZS—8,00,000—1-10-61

29/8/64

My Government Secretariat | PWD File No. 141 GTW of 1962 | [App. F. III 2

Serial No. 136

Seen & returned - Thanks.

Prof Thacker is expected to come to Bangalore tommorrow, on a 3 day visit. It is likely he will hold discussions re: the latest stage. This may please be kept in view

My
2/9/64 Spl Duty Officer

PWD-8076/64

D.Y. Secy
PWD
(H.V. Channappa)

3/9/64.

137

As per oral order of D.S.(9) the draft reminder to M/S Tahal (water planning) & SREAL is put up at page 294 for approval.

3/9/64
F.M.
Discussed

138

28/9

Approved issue
28/9.

139

D.S.

28/9/64

30/9/64

Note.—Contn. Sheet

113 68

B

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

B. No. .....

Received at.....	Sent at.....	Circuit Number	Date-stamp
From.....	To.....		

LT 1300 MDR—113 TELAVIVJAFFA 30 OCS 33 LT M CHANNAPPA PWD GOVERNMENT SECRETARIAT BANGALOREINDIA

LETTER RECEIVED THAHAL REPRESENTATIVE DORON AND ANSIFELD ARRIVING TWELTH FOR NGOTIATIONS THIRTEENTH REGARDING WATER SUPPLY SEWERAGE STAYING WEST END HOTEL STOP PLEASE CONFIRM TIME SUITABLE

ISATPLAN

Copy to D-1.
Put up to D-S(9) on return

MYSORE GOVT. SECRET... No 1522 10 OCT 1964 P.W.D. (RECEIPT) ISSUE

Copy of this may be sent to CE(C) and Sh. Officer Bangalore W.S. Scheme

1/X/64

MGIP Sant—8 Telegraph (DGPT/64)—SFS/S-22/B (Book)—10-6-64—19,000 Bks

142) Sir, Sorry with the approval for signature.
1/10/64

Copies signed. Please issue.
1/10/64

Issued

Dated 1/10/1964

143) Resume after issue for orders. Please see the telegram received from M/s Dahal (Planning) Israel intimating that their representative is arriving for negotiations on 12th of this month. Copies of the above telegram have already been sent to the Special Officer water supply and to the Chief Engineer (C) for their information and necessary action.

144) The above firm has requested to confirm whether the time is suitable.

145) This may be sent to the Joint Secretary for his kind perusal & orders.

1/10/64

H. Sing

1/X/64

JOINT SECRETARY TO GOVT. No. 772/64 - 3 OCT 1964 PUBLIC WORKS D...

PWD 141 GJ 7562 — 113 — 60

B

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

B. No.: .....

Received at.....	Sent at.....	Circuit Number	Date-stamp
From.....	To.....		

LT 1300 MDR 113 TELAVIVJAFFA 30 OCS 33 LT M CHANNAPPA PWD GOVERNMENT SECRETARIAT BANGALOREINDIA

LETTER RECEIVED THAHAL REPRESENTATIVE DORON AND ANSIFELD ARRIVING TWELTH FOR NGOTIATIONS THIRTEENTH REGARDING WATER SUPPLY SEWERAGE STAYING WEST END HOTEL STOP PLEASE CONFIRM TIME SUITABLE

ISATPLAN

BANGALORE GOVT. SECRETARIAT No 1522 10 OCT 1964 P.W.D. (RECEIPT & ISSUE)

MGIP Sant—8 Telegraph (DGPT/64)—SPS/S-22/B (Book)—10-6-64—19,000 Bks.

Issued

Dated 1/10/1964

JOINT SECRETARY TO GOVT. No. 772/64 - 3 OCT 1964 PUBLIC WORKS D.

Confirmation of suitability of proposed Firm may be done immediately.

S. G. BALEKUNDRI
Jt. Secy., P.W. & Elec. Dept. (Irrn.)

D.F. (I.) 6/10/64 Letter issue

Issued
Dated 6-10-64

146) Letter No.BWSS/CON/64-65 dated 10-10-64 from the C.E.Gen. Bangalore re: appointment of Consulting Engineers for Bangalore Water Supply Scheme:-

Orders of the Secy.PWD on the PUD:

" This may be submitted to the Chairman, Bangalore Water Supply and Sewerage Board along with the previous papers."

Intd. C.P.
19-10.

Chairman)
BWS& S.Board.)

20/10/64

M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrgn.)

147) Discussions have accordingly been held with the representatives of the firm from 13th to 19th October 1964. The C.E.(G) was associated in this work with Sris M.Narasimhiah and H.Ananthachar, retired Chief Engineers of the Govt. of Mysore.

The C.E.(G) has now forwarded his recommendations proposed for acceptance in connection with consultancy arrangements as per his letter No.BWSS/CON/64-65 dated 19-10-64. He has also enclosed a draft of the proposed agreement to be entered into between the Bangalore Water Supply & Sewerage Board and M/s TAHAL(Water Planning)Ltd., of Tel-Aviv, Israel and Engineering Science, Inc., of Arcadia, California, USA.

The terms proposed in connection with the consultancy services to be obtained from the Firm, etc., are being placed separately before the Bangalore Water Supply and Sewerage Board for consideration and their recommendations are expected within a few days. Since the technical member of Board Sri M.Narasimhiah, retired Chief Engineer has been associated with the detailed negotiations and discussions held by the C.E.(G) with the Firm from 13th to 19th October 1964, it is likely he will be able to explain the deta so as to enable the Board to take a decision

PWD File No. 141 ST W 64 of 196.

Mysore Government Secretariat

Serial No.

MYSORE GOVT. SECRETARIAT
No.
10 NOV 1964
LAW DEPT (REGISTRARY)

153) Returned as desired.

(P.W.D)

16/11/64

V. RAVIRAJ.

154) As suggested during discussions held at New Delhi on 28-10-64 with the officials of the Finance Ministry and the Health Ministries, a Meeting of the Technical Committee was held at Bangalore on 13-11-64 and 14-11-64. In addition to Shri N.V. Modak, Public Health Engineering Adviser, Bombay, Shri Rajagopalan, Deputy Director General, Public Health was also present.

155) As per Resolution enclosed, they have recommended dropping of Messrs. Tahal (Water Planning) Isreal and starting negotiations with the other firm, M/s. Binnie & Partners of the United Kingdom. The Chairman, Bangalore Water Supply Board tells me that apart from the high rate of remuneration asked for by M/s. Tahal (Water Planning), the tax liability insisted upon by them makes it excessive and unbearable.

156) In the circumstances, the recommendation of the Technical Committee may be approved.

16/11/64

Officer on Spl. Duty. 157) 16/1/1964.

Minister, PWD 158) 16/11

Minister for Ml. Admn. 159) 16-1-64

Chief Minister. 160)

-10-61

Scheme for long range Water Supply to the City of Bangalore

Mysore Government Secretariat

PWD File No. 141 GTW of 1962.

[App. F. III 2

Serial No.

148) decision approving the same.

In the meanwhile, the draft memorandum of agreement sent by the C.E(G) may be forwarded urgently to the Law Department for scrutiny as early as possible so that the final recommendations may be sent to Govt. of India - without delay.

Special Duty Officer,
B.W.S. & S. Project.
20/10/64

Secy PWD) Electrical)

Secy is on tour)
20/10/64

149) Paras 146 to 148 of the case file may be perused. The Memorandum of Agreement is to be forwarded to GOI for approval before it is executed by the Firm and Board. Hence Law Dept. is requested to scrutinise the draft memorandum of agreement early and return the same for further action.

20/10/64
M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrgn.)

Secy. Law Dept.)

MYSORE GOVT. SECRETARIAT
No. 7
20 OCT 1964
Sec
LAW DEPT (REGISTRARY)

Returned as desired.

This may be referred to the Section u/s-D I)
21/10/64

150) B.W.D)

6/11/64
V. RAVIRAJ,
Under Secy., Law Dept.

Stay be passed on to the opinion Section through the general Registry
I.V.
21/10/64

151) Seen & returned - after noting the latest stage re: Consultancy arrangements & its history, for discussions by C.M with Messrs I.B.I (LTD). They have asked for an engagement letter C.M - I am sending another note separately re: the interpreter. The file may please be sent back to Law Dept.
Dy Secy) PWD
7/11/64

Secy)
For Sec II
23/10/64
23/10
23/10/64
9/11/64

152) 9/11/64
M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrgn.)

152) L.D)

Note.—Contn. Sheet

Serial No.

161) The letter of the C.E., dated 16.11.64 placed at page 304 of the C/F and also the proceedings of the 7th Meeting of the Technical Sub Committee of the Bangalore Water Supply and Snitation Control Board held on 13.11.64 placed at pages 305 and 306 of the C/f may also be perused.

162) The matter pertaining to appointment of consultants for Bangalore Water Supply has been discussed in detail by the Technical Sub Committee and it has been decided that the terms and conditions of the firm M/s Tahal, Ltd., Consulting Engineers, Israel are unacceptable. Hence the negotiations with them for this work stands cancelled. It is also decided by the Sub Committee that M/s Binny and Partners who had been also recommended earlier by the C.E., may now be invited for negotiations.

163) The matter has been further discussed in a meeting held in the C.M's Chambers at his residence on 16.11.1964. The Minister for P.W.D., the Minister for Ml.Adm., Officer on Special Duty Bangalore Water Supply and Sewerage Board were present. After discussions the recommendations of the Technical Sub Committee have been approved and the proceedings of the meeting ~~is placed at page 307 of the C/F which~~ may be perused. at Paras 154 - 158 and.

164) In accordance with the above decision, a draft letter addressed to M/s Binny and Partners, London requesting them to go over here for negotiations in respect of appointing them as consultants for Bangalore Water Supply and Sewerage Scheme and also another draft letter addressed to M/s Tahal & Co intimating them that negotiations with them stands

Note.—Contn. Sheet

cancelled are placed at pages 308 and 310 of the C/F which may be perused and approved.

Serial No.

~~Jt. Secy., PWD.,~~ 17/11

Secy., PW & E.,

17/11/64
M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrgn.)

PY TO GOVERNMENT
MDS/6939
17 NOV 1964
PWD & ELEC. D.

167) OSD/Chairman BWSS Board may also kindly see for modifications if any. Tender draft has been prepared on the lines on which M/s Tahal & Israel were asked

CN
17/11

DSD/Chairman.

18/11/64.

168) The draft may issue to Govt.

CN
18/11

17/11/

169) ISSUED
Dated 19/11/64

Bangalore water supply scheme -

Mysore Government Secretariat

File No. MD 14/NJS 62 of 196 [App. F. III 2 (54

Serial No.	
	Telegram dated 22.11.1964 from M/s Binny & Partners, London —
170	1 For perusal. If approved, a copy of the above telegram will be sent to the C.E. (G.) Wing, and to the Chairman B.W.S.S.B. for their information & necessary action. If Direct copies are put up for signature. 25/11/64.

Jsw
25/11/64

ISSUED
Dated 25/11/64

171	C.E. (GW) spoke to me over phone to-day (@ 3-00 P.M) that Sri. Raja Gopalan from the Ministry of Health G.O.I. will be required for negotiations with Binny and Co. (who will be at Bangalore on 1/12/64) on 1/12/64, hence a telegram is to be issued requesting him to attend the negotiations at Bangalore on 1st & 2nd of December. It would facilitate prior discussion if he were to be here on 30th of NOV, hence a telegram may be issued to him requesting to go over here on 30th and it is likely he may have to stay on 1st to 3rd Dec 64.

26/11/64
DS(I)

ISSUED
Dated 26/11/64

Note.—Contn. Sheet

75

File No. WD 141 GPS 62 of 1964

Mysore Government Secretariat

Serial No.

JOINT SECRETARY TO GOVT
No 1187/64
26 NOV 1964

172) Forpensal of para 191 above →

J.S)

26/11/64

M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrgn.)

173) CE (GL) spoke to me over phone stating that a Telegram is to be sent to the Secretary Ministry of Health G.O.I. requesting him to Depute Sri. Rajagopalan to attend Consultancy discussions at Bangalore with Messrs. Binny & partners on 1st & 2nd Dec 1964. Accordingly a draft telegram is placed at page 335 which may please be perused and approved

Secy. P.WD)

27/11/64

174 Issue, the file may be submitted to the Chairman BWSSB. for information

WD-010154—GPB—PZS—8,00,000—1-10-61

Telegram issued on 27/11/64

25/11

Mysore Government Secretariat

Bangalore Water Supply Scheme-Appointment of Consulting Engineer.
File No. PWD 141 GTW of 1963.

[App. F. III 2

Serial No.

Letter No.BWSS/COn/64-65 dt.7-12-64 from the Chief Engineer(General),Bangalore.

—

175)

The Chief Engineer(General)has in his above letter pointed out how there would be a saving in cost of Rs.26 lakhs as per terms of Messrs.Binnie and Partners. Further he estimates a saving of foreign exchange of the said Rs.26 lakhs plus another Rs.12 lakhs amounting in all to Rs.38 lakhs. Another very important, favourable feature is that Messrs. Binnie and Partners have agreed to pay in-come tax as per Indian Laws,whereas the earlier firm wanted the Board to shoulder the burden in regard to taxes.

Sri.S.Rajagopalan Deputy Director General of Health Services,Govt.of India attended the discussion at all the meetings held in this connection and he is also satisfied that the terms are reasonable.

A recommendation may therefore be sent to the Finance Ministry,Govt.of India for acceptance of the proposals. The draft will also be got scrutinised in the Law Department,before forwardal to the Government of India.

8/12/64.

Officer on Special Duty
and Chairman,-Bangalore
Water Supply and Sewerage
Board,Bangalore.

SECRETARY TO GOVERNMENT 7431. 10 DEC 1964 PUBLIC WORKS & E.C.

OFFICE OF THE MINISTER FOR FINANCE NO F 5914 10 DEC 1964 BANGALORE.

Secy.,PWD
Secy.,PLM.
Secy.,F.D.
Minister for PWD

Minister for Ml.Admn.

Finance Minister.

Chief Minister.

176) 8/12

177) 8/12/64.

N. S. Ramachandra
P.L.M. Secretary

178)

N. VEERAPPA URS.
Finance Secretary.

179) 9/12

180) 9/12/64

181) 10/12/64

182) 9/12/64

Note.—Contn. Sheet

Serial No.

184 A draft letter for issue to the Finance Ministry Govt of India is placed below, in view of the urgency.

After issue of the D.O. letter, the file may please be sent to the Law Secretary for scrutiny, as urgently as possible. The Finance Ministry, Govt of India is anxious that there should be no delay so far as India is concerned, that the World Bank should not cite any delay on our part.

185) For favour of scrutiny of the draft agreement. 14/12/64

M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrgn.)

L.D.

186) The draft memorandum of agreement at page 393/1 C.F. proposed to be entered into between the Bangalore Water Supply & Sewerage Board and M/s Binnie & Partners, London has been seen.

187) It is noted from the letter of the ~~Chief~~ Chief Engineer (General) at page 347 C.F. and its enclosures as well as the noting in paras 175 to 182 N.F. that the terms and conditions set out in the draft agreement have been settled upon between the parties after personal discussions between their representatives.

188) The opinion of this department has not been sought in respect of any particular question of law or fact.

189) The draft agreement appears to be in

OFFICE OF THE OFFICER ON SPECIAL DUTY BANGALORE WATER SUPPLY & SEWERAGE PROJECT BANGALORE
No. 165
Date 14.12.64

ISSUED
Dated 14/12/64

MYSORE GOVT. SECRETARIAT
No. 14 DEC 1964
LAW DEPT (REGISTRAR)

Received at 5-30 p.m.
14/12/64

15/12/64

15/12/64

Note.—Contn. Sheet

79 Bangalore - Water Supply Scheme

PWDFile No141 GTW of 1962.

Mysore Government Secretariat

Serial No. 2613/AS/4

proper form.

(U.NARAYANA RAO)
Addl. Secretary,LAW
Dec. 19, 1964.

H.L.M.

PWD.

190) The Law Secretary may please see urgently.
JWR
6-1-65

191) Considering the importance of the matter and heavy commitments involved, the Advocate General will kindly scrutinise the draft agreement and offer his remarks:

7/1

55/4
7/1/65

THE MINISTER NO... 72 BA...

192) I have gone through the draft agreement containing the terms and conditions upon which the Consultants should undertake the consultancy services for the new works as well as the remodelling works in connection with the Bangalore Integrated Water Supply and Sanitation scheme. With regard to the duties of the Consultants at various stages I believe they have been incorporated in the draft agreement as agreed upon between the parties. Similarly the remuneration of the Consultants and the manner of payment of such remuneration also I believe have been fully set out as agreed upon. The terms and conditious set out are all right. But in clause (11) it is stated that if at any time before the completion of the new works in part of the new works or equipment thereof are damaged or destroyed by operation of war or other causes, the client shall pay to the Consultant the appropriate fee for any additional works which may be required to be designed and supervised by them, as a result of such damage or destruction. The clause providing for the case of damage or destruction by parts by war or other causes is intended to be the usual

"FORCE MAJEURE"

clause, but this clause is vague. Other clauses should be specified. The other causes must be beyond the control of the Consultants. Usually such clauses are worded, " Act of God, Queen's Enemies and accident, etc.," These may be so incorporated with suitable alterations. The

The clause may provide for by "operation of war, or other accident, Act of God, or other causes, beyond the control of the Consultant" may be inserted.

I presume the agreement has to be entered into between the Bangalore Water Supply and Sewage Board, on the one part, and Binnie & Partners on the other. If the agreement is to be signed after the Bangalore Water Supply and Sewage Board is duly incorporated, then there is no difficulty. Such Board will be a person and can enter into a contract. But if it is ~~is~~ not so incorporated, as I think it is not incorporated now, the Board will not be a legal person and hence it may be incompetent to enter into a contract. The Board is but a Department of the Executive Government of the State and hence any agreement that has to be entered into must fulfil the conditions of Article 299 of the Constitution.

(T.Krishna Rao)
Advocate General.

D/ Jan.1965.

Mysore Government Secretariat | File No. PWD 141 GTW 62 of 196 | [App. F. III 2

Serial No.

193. LAW DEPARTMENT:

The Bangalore Water Supply & Sewerage Board is a statutory body incorporated under section 9 of the Bangalore Water Supply & Sewerage Act, 1964. As body corporate it could sue and be sued and therefore it can sign the agreement in its own right and in its own name.

With reference to clause XI of the draft agreement, I agree with ~~the~~ the observation of the Advocate-General. In that clause, "operations of war (or other causes)" may be amplified as suggested by the Advocate-General in the following terms: Operation of war or other accident, act of God, or other causes beyond the control of the consultant.

(R.SANJEEVALU)
Law Secretary
JANUARY 8,1965

H.M.C.

55/1s

Say, PWD

8-1-65

8/1

SANJEEVALU,

194. The opinion of the Advocate General in para 192 and also that of Law Secretary in para 193 of C/N may have to please be perused. The draft agreement may be finalised with the slight modifications as suggested

Note.—Contn. Sheet

Serial No.

The Letters addressed to M/s. Finance Ministry G.O.I and Ms. Binnie and partners have been issued and the file referred to B.W.S.S.B. Chairman as desired in Para 196 ante.

Chairman B.W.S.S.B.

12/1/65

M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrgn.)

Dated: 12-1-65

199. Reference is invited to proceedings of the First meeting of the Technical Sub-Committee (under the former Bangalore Water Supply Control Board) held on 12-9-1963 regards the following two points:- (page 83/3)

(a) Assurance of water supply from the Power Channel running from the Sivasamudram Anicut to the Netkal Balancing Reservoir:

The World Bank team is requesting that the above point regarding the rights of Bangalore Water Supply Scheme should be made clear, by issue of specific Government Orders on the subject. This may be done urgently because it is comparatively easier to clear up this issue.

(b) Kabini Storage Dam:

The question of reservation of part storage capacity of Kabini Storage Dam for Bangalore Water Supply, on the lines discussed at the time of the visit of the World Bank team, may also be settled expeditiously.

(K. NARAYANASWAMY)
Officer on Special Duty & Chairman, Bangalore Water Supply & Sewerage Board.

Note.—Contn. Sheet

12/1/65

Dy Secy PWD
Sri Channappa 14/1/65

85

File No. PWD 141 GTW 62 of 196 .

Mysore Government Secretariat

Serial No. 200

i) Assurance of water supply from the power channel running from the Sivasamudram Anicut to the Kethal Balancing Reservoir.

From a perusal of the proceedings of the First Meeting of the Bangalore Water Supply & Sanitation Control Board held on 12-9-63, it will be clear that it was recommended that clear orders should be passed to the effect that water required for the Bangalore Water Supply scheme should have the first priority over the requirements of power generation so that water supply does not suffer. 200

page 83/3 of Flag-C

In view of the fact that there would be surplus capacity in the power channel running from Sivasamudram Anicut to the extent of 600 cusecs and also the fact that the existing stations are either to be pensioned off or sub merged under the Cauvery Hydro-Electric scheme 201

Note Continuation Sheet

Subject Interferences Bangalore water supply Scheme - Draft agreement — File No. PWD 141 GTW 62

WD 014399—GPB 8,00,000—5-12-64

Reference and markings	Notes and Orders	Para Numbers
	There seems no objection to issue an order regarding the rights of Bangalore water supply scheme over the power channel.	
	ii) Kabini storage Dam.	
	The details of the discussion held with the World Bank team about the Reservation of part storage capacity of Kabini storage Dam for Bangalore water supply scheme are not known. The point raised by the Chairman Bangalore water supply & Sewerage Board is for consideration & orders.	202
203) M. discuss. 19/1/65	M Hassan 18/1 — 19/1/65	
	Discussed with D.S. (P.W.D. (Irrg)	19/1/65
	The power project section may be requested to offer their remarks on paras 200 & 201.	204
Distribution for firm PWD 141 GTW 62	M Hassan 22/1 — 22/1 — 22/1/65	
C — Electrical Section		

MYSORE GOVT. SECRETARIAT No. 82/P.B.1/62 3 FEB 1965 D. HARAVATHY VALLEY PROJECT

Stitching space

67

Note Continuation Sheet

Subject..... File No. PWD/41 GTW 62

Reference and markings	Notes and Orders.	Nos.
	Receipt at page No 413 diary - - - 17-2-65	
	Govt of India has intimated that the draft Agreement with M/s Binnie & Partners, London regarding Bangalore Water Supply and Sewerage Project was ~~air~~ sent to Executive Director for India International Bank for Reconstruction & Development for their concurrence.	205
	The copy of the Govt of India's letter 17-2-65 has been sent to Chairman Bangalore Water Supply & Sewerage Board. P.D. Letter issued from the secy's establishment (vide No PA/57/65 dt 17-2-65) page 415.C-F).	206
	Submitted for orders. 1. Secy (Works)	207
	2 DS (I) should also see this.	208
	Ch 18/2	
	DS (I)	

Stitching space

GOVERNMENT 1079 PWD & ELEC. DEPT

File No. [illegible] 62

WD 014899—GPB 8,00,000—5.12.64

Volume —

Notes and Orders | Para Numbers

209 209

[illegible]t from Electrical Section file [illegible]76 ELEC 65.

[illegible]e Spl. Irrigation Section file relating to [illegible] Bangalore Water Supply Scheme, kept below [illegible]as been received for remarks on the [illegible]uestion of giving preference to water supply over the power generation at Simsha.

The recommendation of the Technical Sub-Committee at page 83(3) of the linked file is pecific on this issue.

The capacity of the power channel is stated to be more than adequate to meet fully the requirements of water both for the Bangalore water supply scheme and power generation.

Based on this recommendation orders may perhaps be passed stating that the Bangalore Water Supply Scheme will have preference to the water from the Power Channel over the power generation at Sivasamudram.

For orders.

Remarks of the C.E., C.P. has to be ~~obtained~~ called for on paras 1 and 2 above.

Itd. K.M.
D.S. (P.P.)

210

Action is being taken to obtain the remarks of the C.E., H.E.C.P. in the connected file of the Electrical Section. This file may be returned to the Spl. Irrigation Section, as the same is constantly required by them.

20.2.65

20/2/65

Spl. Irrigation Section)
[illegible]

211

Para 199 of the case note pertaining to (a) assurance of water supply from the power channel running from Shivasamudram Anecut to the

Stitching space

Note Continuation Sheet

Subject Bangalore Water Supply Scheme — File No. PWD 141 GTW 62

WD 014999—GPB 8,00,000—5.12.64

Reference and markings	Notes and Orders.	Para Numbers
	Extract from Electrical Section file PWD 176 ELEC 65.	209
	"The Spl. Irrigation Section file relating to the Bangalore Water Supply Scheme, kept below has been received for remarks on the question of giving preference to water supply over the power generation at Simsha. The recommendation of the Technical Sub-Committee at page 83(3) of the linked file is pecific on this issue. The capacity of the power channel is stated to be more than adequate to meet fully the requirements of water both for the Bangalore water supply scheme and power generation. Based on this recommendation orders may perhaps be passed stating that the Bangalore Water Supply Scheme will have preference to the water from the Power Channel over the power generation at Sivasamudram. For orders. Remarks of the C.E., C.P. has to be ~~obtained~~ called for on paras 1 and 2 above. Itd. K.M. D.S. (P.P.)	209
	Action is being taken to obtain the remarks of the C.E., H.E.C.P. in the connected file of the Electrical Section. This file may be returned to the Spl. Irrigation Section, as the same is constantly required by them. 20.2.65 20/2/65	210
	Spl. Irrigation Section 22/2/65	
	Para 199 of the case note pertaining to (a) assurance of water supply from the power channel running from Shivasamudram Anecut to the	211

Stitching space

Reference and markings	Notes and Orders.	Para Numbers
	to the Netkal Balancing Reservoir; (b) Reservation of part storage capacity of Kabini Storage Dam for Bangalore Water supply may please be perused.	
	Regarding the assurance of water supply from the power channel running from Shivasamudram Anecut to the Netkal Balancing Reservoir the proceeding of the first meeting of the Technical Sub Committee held on 12-9-63 (copy of the Proceedings placed at page 83 of the case file) vide item No.2 may be perused. The decision is as follows:-	212
	"It was felt since power channel has a discharging capacity of 900 cusecs only 300 cusecs are required for power generation at Shivasamudram, ~~Hence~~ there would be adequate surplus capacity in the channel for drawing not only 60 M.G.D. for the present but even 120 M.G.D. or more in future. It was also understood that the existing power stations are either to be pensioned off or else submerged in the Cauvery Hydro Electric scheme and ~~need~~ in no event ~~not even~~ are they to be expanded.	
	However the committee recommends that Govt. should pass clear orders to the effect that the waters required for Bangalore Water Supply should have the first priority over the requirements of power generation so that water supply does not suffer".	213

Stitching space

PWD 141 GTW 62

In view of the above, assurance of water supply from the power channel and also priority for water supply over the requirements of water for power generation may be agreed to subject to the Condition that Proportionate Charge for Anicut and power Channel is paid by the B.W.S.S.B.

(2) Regarding reservation of part storage of Kabini Dam for Bangalore Water Supply extract of the paragraph on utilisation in the revised estimate Project Report of Kabini Dam may please be perused.

UTILISATION:

(1) Direct Irrigation under Kabini Reservoir by the two channels on the Left and Right Banks taking off @ + 45 (6,300 acres on Left Bank + 3,700 acres on Right Bank) at 3.9 acres per 1.0 M.Cft.	2,551 M.Cft.
(2) II Crop for 20,000 acres directly under Reservoir Channels and the Hullahally and Madhavamanthri Anicuts channels lower down. (7/10 x 10000 = 7,000) 7/10 x 17500 = 12,250) 19,250 or say 20,000) at 2.65 acres per 1 M.Cft.	7,539 M.Cft
(3) Power draw off for releasing the power reserve storage at Krishnarajasagar and utilising it for irrigation of 15,000 acres.	8,000 M.Cft
(4) Evaporation losses	2,500 M.Cft
(5) Bangalore water supply	1,200 M.Cft
(6) Carry over for the next year.	3,470 M.Cft.
Total:	25,260 M.Cft.

214) From the above it may be seen that 1,200 M.Cft. of water is available for Bangalore Water Supply from the Kabini Reservoir.

215) This matter of reservation of 1,200 M.Cft. has been discussed in the meeting of Technical Sub Committee of M.I.P.C. Board held on 29.8.62 and the following is the Resolution.

"Incidentally provision for 1.2 T.M.Cft. ~~has been~~ has been made for supplying water for Bangalore Water Supply scheme from Cauvery and the Project

P.T.O.

and : Project Estimate gets reduced to the extent the cost of the Storage of water that will have to be paid by the Corporation authorities."

216) In consideration of the above two aspects the draft Govt. Order regarding the (1) assurance of ~~fx~~ water supply from the power channel, (2) ~~to~~ Reservation of Part Storage in Kabini Dam for Bangalore Water Supply is put up at page 419 to 421 of the case file which may be perused and approved.

JOINT SECRETARY TO GOVT. No. 322 5 MAR 1965 PUBLIC WORKS DEPARTMENT

M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrgn.)

~~F. S.~~

Secy. P.W.D.

Secy. P.L.M.

Chairman B.W.S.B.

F. D.

Minister P.W.D.

217) 1. Pl. place in the file a copy of the proceedings of the M/P C Board referred to in para 215.

2. What is the crop mentioned at item (2) under the head utilisation? Is it a summer crop?

3. What is the power related to (from K.R. Sagar) to be used in the irrigation under Kabini reservoir?

PWD/1571 SECRETARY TO GOVT. PUBLIC WORKS & E

9v

Serial No.

4. We will have to take into account the storage capacity of Kabini, while considering the water requirements of the B. locality

Ch
7/3

MYSORE GOVT. SECRETARIAT No. 127/TW/65 PUBLIC WORKS (MAJOR IRRIGATION)

D.3.(1)

8/3/65

218 The proceeding of the meeting referred to in para 215 may be seen at pages 423 to 427 C.F. (Flagged D)

219 As regards the other items 2, 3 & 4 in para 217 ante, the Major Irrigation section may be requested to clarify the position.

Hassan
9/3
9/3

220) 9/3/65

221) Regarding the points referred to in sub paras (2), (3) and (4) of para 217 above, the Spl. Design. Section may address the C.E. for clarification.

Note.—Contn. Sheet

Spl. Design. Section
18/3/65

93)

File No. PWD 141 GTW 62 of 196

Mysore Government Secretariat

p. 429 onwards

As per instructions of D/S (I), a D.O. is put up for approval.

25/3/65

25/3

Serial No. 222

223

16/3

Received 27/3/65

Receipt at page 431 diary No 651/Spl.

224

A copy of letter PWD 141 GTW 62 dt 12-1-65 may be sent to Govt of India Ministry of Finance as desired.

225

A draft letter is put up at page 433 for approval.

27/3

28/3

Letter no PJN/322 D 25.3.65 from Sri P. J. Norris. Principal Partner Madras -

Letter no 1PH/BISES/6 G-65 dated 31.3.65 from the Chief Engineer (P) Bihar

Note Continuation Sheet

Subject..... File No.....

Reference and markings	Notes and Orders.	Para Numbers
....	For perusal of paras 175 wherein the recommendation of the Chief Engineer recommending ~~the~~ M/s.Binny & Partners as ~~consulting~~ consultants for Bangalore Water Supply & Sewerage Scheme has been accepted. In pursuance of the above the draft agreement proposed to be entered into with M/s.Binny & Partners has been prepared and the same has been scrutinised by the Advocate General vide para 192 and by the Law Department in para 193 and ~~the same~~ has been forwarded to Finance Ministry, Govt. of India in Govt.letter No.PWD/4/GTW 62 dated 12.1.65 placed at page 405 and also a copy of the agreement has been forwarded to M/s.Binny & Partners (Sri P.J.Norris). In the letter dated 15.1.65 M/s.Binny & Partners expressing their entire satisfaction have pointed out some small typing errors in the draft agreement. Subsequently discussions were held both at ~~both~~ Bangalore and Delhi regarding the terms and conditions ~~and~~ of the draft agreement and as a result of which a ~~the~~ modified draft agreement has been forwarded to State Govt. by M/s.Binny & Partners in their letter dated 25.3.65 vide page No.435 The modified ~~xxx~~ draft agreement as received with the above letter ~~may be seen~~ (at page 437) ~~The modified draft agreement~~ has been studied by the Chairman, Bangalore Water Supply and Sewerage Board and the Chief Engineer(G) and they have agreed for the same. The letter of	(226

Stitching Space

95

Note Continuation Sheet

Subject Bangalore Water Supply & Sewerage Project — Draft agreement — File No. DS 2/141/65

WD 014899—GPB -8,00,000—5-12-64

Reference and markings	Notes and Orders.	Para Numbers
	the Chief Engineer(G) dated 31.3.65 duly endorsed by the Chairman, Bangalore Water Supply and Sewerage Board may please be seen at page 443.	
	In view of the above the draft agreement now finalised (placed at page 437.) may please be seen. The same may be forwarded to Finance Ministry, Govt. of India, with the concurrence of the State Govt. for onward transmission to World Bank authorities for their concurrence. (227)	
	SECRETARY, P.W.&E.DEPT.) 1/4/65 DS(I)	
	Kindly see the facts mentioned in paragraphs 226 and 227 n.f.	228
	The draft Agreement prepared earlier after discussion with the representative of the firm Messrs Binnie & Partners, were forwarded to the World Bank through the Finance Ministry, Govt. of India. They made certain suggestions for a few modifications here and there and also for inclusion of a clause relating to the termination of the Agreement and another clause relating to the ownership of the documents which will be prepared by Messrs Binnie & Partners. The discussions were held initially at Bangalore in regard to suggestion made by World Bank with Mr.Norris, a partner of ~~the~~ M/s Binnie & Partners, London. The Chairman of the Board, Shri N.S. Ramachandra Sing & Shri Narasimhiah, Member of the Board and Shri S.G.Balekundry,	229

Stitching space

Serial No.

Chief Engineer of the Board took part in the discussions. These discussions were continued subsequently at Delhi during which Mr. Votaw, Representative of the World Bank was also present. The discussions were held in the Ministry of Finance. Mr. M.K. Venkataraman, Under Secretary and Mr. Rajagopalan, Deputy Director-General (Health), Ministry of Health took part in the discussions. I had earlier discussed with Mr. Asok Bombawale, Director for World Bank Loan in the Ministry of Finance. As a result of all these discussions and subsequent consultation by Mr. Norris with his partners in London, a draft Agreement has been prepared which contains provisions for termination of the agreement and for making available of the documents which would be prepared by his firm ~~in the course~~ for the execution of the project vide clauses 28 and 25 respectively. I had a telephonic discussion with Shri M.K.Venkataraman, Under Secretary on 29th.March 1965. He said that the two clauses referred to above had been prepared in consultation with the Ministry of Finance informally and agreed to by the Ministry. Therefore, we may take for all practical purposes that this draft Agreement has the concurrence of the Ministry of Finance. However, it will have to be routed through that Ministry to World Bank for their concurrence as the formal concurrence of the Finance Ministry would be necessary before it is sent to the World Bank for their approval. The draft Agreement has been seen by the Chairman and Chief Engineer of the Water Supply Board ~~with~~ who have recommended ~~him~~ for acceptance of the same.

Note.—Contn. Sheet

97

File No. PWD 141 GTW of 1962

Mysore Government Secretariat

Serial No. (230)

For perusal before the draft Agreement is sent to the Ministry of Finance for onward transmission to the World Bank.

(Chandappa Patel)
Secy, P.W & E Dept.
1-4-1965

P.L.M. Secretary

Minister for Mun. Admn.

Minister for P.W.

Chief Minister

K. PUTTASWAMY,
Minister for Municipal Administration.

(VEERENDRA PATIL),
Minister for Public Works.

(231)

(232) MINISTER FOR PU... 638 5 APR 1965 BANGALORE

(233)

(234)

(235) OFFICE OF THE MINISTER FOR MUNICIPAL ADM. No. F593 5 APR 1965 BANGALORE

236

Issued
Dated 5/4/65

Receipt at page 453 diary no 808/Spl.

A copy of draft consultancy agreements had already been sent to both of them, & no action seems necessary on the receipt for perusal.

237

SECRETARY TO MINISTER ... No. 20 APR 1965 PUBLIC WORKS & EL...

(238)

WD-010154—GPB—PZS—8,00,000—1-10-61

Serial No.

239 A copy of the letter at page 151 of a copy of the draft agreement may be given to the B on 21.4.65.

CB
20/4
CHANDAPPA PATEL,
Secy. P... Secy.

GOVERNMENT 21 MAY 1965 ELEC. DEPT.

U S (C).

240 Given in person to Sy. [illegible]

241 The D.O. letter of Binny & Partners dated 3rd May, 1965, addressed to Secretary to Govt. P.W.D. and placed at pages 454-455 of the case file may be perused. The firm refers to the two outstanding matters raised by the International Development Association in their letter of 17th March, 1965, which have not been so far covered in the modified draft agreement. They have stated that they have no objection for the further amendment being made to the draft agreement. The Chairman, Bangalore Water Supply & Sewerage Board may please see the letter and suggest further amendment, if any.

As desired by the Secretary the file is put up to the Chairman.

6/5/65
M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (.

CHAIRMAN,)
B.W.S.&S.BD.)

Annexe - M.G.1-2
Buildings
Plan 1.

Resubmitted.

242 The two further additions proposed in respect of Appendix 4(B) and Clause XI have been got examined by the Chief Engineer, Bangalore Water

Note.—Contn. Sheet

. . . . . .

Supply and Sewerage Board. His note is extracted below:-

(a) Addition of the words "....by computer analysis" to the third sentence of Appendix 4(B):

"The question of adopting computor analysis for the design of the Water Supply net work has been discussed earlier. The World Bank representatives insisted on it, but M/S Binnie and Partners took the view that it was not necessary, adding however that they would resort to it if found called for. M/S Binnie & Partners have in their letter dated 3-5-65 agreed for the Computor analysis. This being a more sophisticated technique, we may also agree.

(b) Addition of the words "....and the minimum fees referred to in Clause IV shall not apply." to the second sentence of Clause XI

Secondly, the amendment to clause No.XI of the draft agreement to which Binnie & Partners have agreed in the same letter is in our favour and may be accepted."

Sd.K.G.Katwey,
C.E.,BWSSB.Dt.10-5-65

The additions to the above two Clauses agreed to by M/S Binnie & Partners, London, may therefore be accepted.

A letter may kindly be sent accordingly to M/S Binnie & Partners, London, in reply to their letter dated 3-5-65 with a copy to (1) Mr.M.K.Venkataraman, Under Secretary to the Govt. of India, Min. of Finance (Dept. of Economic Affairs),New Delhi, (2) -- Mr.S.Rajagopalan,Dy.Dir.Genl.,Public Health Engineering, Ministry of Public Health, Govt. of India, New Delhi,&

....

File No. PWD 141 GTW 62 100

and (3) Mr. J.J.Armstrong, Projects Dept., International Development Association, 1818 H.Streety N.W., Washington, D.C.20433, U.S.A.

B'LORE WATER SUPPLY & SEWERAGE BOARD
No. 24 91 63
Date 11-5-65
BANGALORE-1.

Chairman
BANGALORE WATER SUPPLY & SEWERAGE BOARD

DY.SECRETARY,
P.W.D.
(Sri Channappa)

243) Pl put up the typed draft letter as indicated above to-day.

11/5/65
DS(I).

p. 456 of CFM

244) Subject with a typed draft for approval

11/5

11.5.65

245) DS (I) Forwarded of paras 241 to 242 of C/N. A draft letter addressed to M/s. Binny and partners and Pl and at Page 456 of CFF may be perused and approved before issue

To Government
3176
1965
Works & Eleg. Dept.

Secy P.W.D)

11/5/65
M. CHANNAPPA,
Dy. Secy. to Govt. P.W.D. (Irrg)

246) 16/5/65

247) 17/5/65

Issued
18/5/65

101)

PWD 141 GTW 62

248) D/S (I) has been pleased to instruct that M/s Benny & partners may be informed.

p. 461 of (Dft) 249) A draft is accordingly put up for approve
25/5/65

250) For perusal before issue
26.5.65

DS (I)

Draft approved by D/S (I)

ISSUED
Dated 27/5/65

251) Sabha -
Received letter from D/S (I) with instructions. A revised draft addressed to M/s Bombay is put up for perusal & approval

Receipt no. 1136 from the Secretary, to Govt of India, Ministry of Finance on the subject -

252) Orders of the Secretary P.W.D. on the proc:-

p. 461

"M/s. Benny and Partners may be informed of this approval and board appraiser. Let me see the draft on 31.5.1965."

(Sd.) C.P.
29/5

D/S (I)

p. 461 of C.F.

253) Submitted with a draft for approval
31/5/65

Secy P.W.D)

31/5/65
M. CHANNAPPA
Dy. Secy. to Govt. P.W.D.

Note Continuation Sheet

Subject ..... File No.... .....

WD 014899—GP B—8,00,000—5-12-64

Reference and markings	Notes and Orders	Para Number
	The draft agreement (page 451/c.f.) which was prepared after discussion with M/s Binnie & Partners, London and the representative of the World Bank and also in consultation with the Department of Economic Affairs, Ministry of Finance, Government of India and which was scrutinised by our Legal Department was forwarded to the World Bank for their approval through the Ministry of Finance, Govt. of India. In this regard paras 228 to 234 may also please be seen. Subsequently, we have also communicated on the request of M/s Binnie & Partners a few amendments which of course do not alter substantially in any of the terms suggested in the original draft.- vide paras 242 and 243/n.f.	(254)
	The Government of India, Ministry of Finance have in their letter No. F.12(60) 65-F8 dated 26-5-1965 have informed us that the International Development Association have approved the draft agreement with M/s Bannie & Parters sent to them by us. We may communicate the same to M/s Bannie & Partners requesting them to take further action in the matter, ~~keeping~~ the Govt. of India (Finance) apprised of the same. A draft is also proposed at page 465/c.f. for kind perusal before issue.	(255)

Stitching space

THE MINISTER FOR PUBLIC WORKS
NO. 1113
1 JUN 1965
BANGALORE.

B'LORE WATER SUPPLY & SEWERAGE BOARD
No. CH. 93/65
Date 31/5/65
BANGALORE-1.
OFFICE OF THE

SECRETARY TO GOVERNMENT
No. PWD 3670
31 MAY 1965
PUBLIC WORKS & ELEC. DEPT.

P.L.M. Secretary's Office
No. 3986
1/6/65

(256) Chairman 31/5/65
Secy. PLM
Min. P.W.D.
Min. Municipal Adm.
C.M.

(257) N. S. Ramachandra
Secretary Fin. Deptt.
Minister for P.W.

(258)

Chandappa
31/5/65
CHANDAPPA PATEL,
Secy. P.W. & Elecy. Dept.

1/6/65

Note Continuation Sheet

Subject.....

File No. PWD 141 GTW 62

Reference and markings	Notes and Orders	Para Numbers
	Seen. 4/6/65 I find in many notings on files they are carried on till the very bottom of the page. Can we not see that at least one inch is left vacant? Instructions may be issued accordingly. 4/6/65	(259 (260
	Secy (PWD) Ch 5/6	
	The file has not been seen by Minister for Municipal Adm., as he was on tour. It may be submitted to him for perusal before issue of the draft letter.	(261
	Ch 5/6 P.S. to Min. Mu. Ad. CHANDAPPA PATEL, Secy., P.W. & Elecy.	
	7/6/65 K. PUTTASWAMY, Minister for Municipal Administration.	(262
	5/6/65 Ch 7/6 Issued 9/6/65	(263

Stitching space

OFFICE OF THE CHIEF MINISTER
2443
4 JUN 1965
BANGALORE.

SECRETARY TO GOVERNMENT
No. PWD 3824
5 JUN 1965
PUBLIC WORKS & ELEC. DEPT.

OFFICE OF THE MINISTER FOR MUNICIPAL ADM.
No. F974
5 JUN 1965
BANGALORE.

SECRETARY TO GOVERNMENT
No. 3601
7 JUN 1965
PUBLIC WORKS & ELEC. DEPT.

Note Continuation Sheet

Subje Bangalore Water Supply and Sewerage Board - Draft agreement.

File No. PWD 141 GTW 62

Reference and markings	Notes and Orders	Para Numbers
	As per the instructions received from P.A. to Secy to PWD. a draft letter to Sri. S. Rajagopalan Dy. Director General public Health Govt of India & Mr. M.J. Armistrong International Development Association is put up for approval. 11.6.65	(264
	Pearson 10/6	(265
	PM 14/6/65	(267
	DS (T)	
Issue 14/6	Issued Dated 16/6/65	
	The chairman BWSS Board Telephoned that the file was required urgently, which may be sent. Ch 19/7/65	(268
XXX 19/7/65	B.W.S.S.Board: After the Government of India gave necessary assurance regarding the Foreign Exchange, Mr.Norris and other Experts	(269

Stitching space

.....

(10)

Note Continuation Sheet

Subject.....

FWD 141 GTW 62

FMS No.....

WD 014899—GP B—8,00,000—5-12-64

Reference and markings	Notes and Orders	Para Number
	(of Binnie & Partners of London) have arrived at Bangalore and a discussion was held with them in regard to the signing of the Consultancy Agreement. The following were present:- (1) Chairman, B.W.S.S.Board. (2) Secretary to Government, P.W.D. (3) Chief Engineer, B.W.S.S.Board. (4) Mr.Norris (Binnie & Partners of London) and other Experts. (5) Secretary, B.W.S.S.Board. After examination of the Agreement brought by them from London, it was noticed that there were a few minor errors which do not affect the contractual obligations vide statement on page 470/C.F. These were duly checked up and traced. These had occurred in the office of the Chief Engineer(General) while preparing stencilled copies from the draft sent by Mr.Norris after discussions at Delhi, along with his letter dated 25-3-1965 (page 436). It was therefore decided that the Agreement be signed accordingly, after adopting formalities regarding Stamp, etc. suggested by the Advocate, Shri Subramaniam. Action is being taken accordingly. (K.NARAYANASWAMY) 20/7/65. CHAIRMAN, BANGALORE WATER SUPPLY & SEWERAGE BOARD. Chief Engineer, B.W.S.S.Board SECRETARY TO GOVT., PUBLIC WORKS DEPT. Chandappa 22/7/65.	(270 (271

Stitching space

p.t.

pe council chairman ch

OFFICE OF THE CHAIRMAN, B'LORE WATER SUPPLY & SEWERAGE BOARD
No. CH-132/65
Date 20/7/65
BANGALORE-1.

SECRETARY TO GOVERNMENT
No. PWS/471
21 JUL 1965
PUBLIC WORKS & ELEC. DEPT.

Note Continuation Sheet

Subject..... File No.....

PWD141/GTW62

Reference and markings	Notes and Orders	Para Numbers
	1. Please check up when the World Bank Team is coming.	(272
	2. The points ~~raised~~ mentioned in para 199 were to be discussed & orders of Govt. issued. These may be awaited urgently.	(273
	Ch 23/7/65	
	D3(1) 23/7/65	
	As regard para 272 a Telegram has been ~~issued~~ sent to Govt. of India on 24-7-65 requesting them to intimate arrival of World Bank Team.	(274
	As regard para 273 the Electrical section has sent ~~the~~ a copy	(275

Stitching space

PWD 4711

2xx 23/7

a copy at page 270 C.F. PWD 13 2456

352 469/190 15pt at page 469/C.F.

107

Note Continuation Sheet

Subject Bangalore water supply & sewerage project — Kabini Storage Dam.

PWD14161TW62

File No.

WD 014999—GPB—8,00,000—5-13-64

Reference and markings	Notes and Orders.	Para Numbers
464/163	of the C.E. (H.E.C.P) ~~to~~ letter wherein he has agreed to give priority for the requirements of water supply.	
	The C.E. (IP) has not given any reply regarding ~~Reservation~~ reservation of part ~~storage~~ Kabini storage Dam.	(276
	A reminder put up at page (47) may issue to C.E. (IP).	(277
	Sd/ 27.7.65	
	26/7	
	28/7/65	(278
	DS (I)	
8/29/7		
	ISSUED / 27/8/65	
	Kindly see the copy of D.O. No. PH. 1/1017 dt 1-7-65 of the C.E. Electricity (General) Bangalore addressed to the D.S. to the Govt. of Mysore PWD (PP) Bangalore.	(279
	A copy of the D.O. of the	

Stitching space

Subject: Bangalore Water Supply & Sewerage projects – Requirement of power generation

File No. PWD 141 GTW 62

Reference and markings	Notes and Orders.	Para Numbers
	C.E. Electrical (Gl) may be sent to Chairman Bangalore Water Supply & Sewerage Board.	
	A draft letter is put up at page 471 for approval.	(280
	Please 4/8	
408/1 & 408/3 of C.E. – 7/8/9 W. Receive from the Elec Section	It is seen from the U.O. note – with its accompaniments – that there are reports from the Chief Engineer HEP as well as from the Chief Engineer (Gl) Mysore State Electricity Board re supply of water from the power channel returning from the Sivasamudram Anicut to the Vetrical Balancing Reservoir.	(281
	If approved, the above reports will be sent to the Chairman B.W.S.&S. Board for his urgent remarks	(282
p. 472 of C.E. (Gl)	A draft letter is also put up for approval. 5/8/65 — 5/8	(283
	As (I) when report from CE (GL) MSEB is available there appears to be no need to address the Chairman M.S.E.B again	(284

Stitching space

105

Note Continuation Sheet

Subject: Bangalore Water Supply & Sewerage Project.

File No. PWD 141 G/TWS 62

WD 014899—GPB—8,00,000—5-12-64

Reference and markings	Notes and Orders.	Para Numbers
	Replies to the points of observation of Secy. vide para 217 may be put up with the necessary papers immediately.	
	6/8/65	
DSP Sept 62 7/8 M. Chief Engineer	The Chief Engineer I.P. has been addressed in this Dept. letter No. PWD 141 G/TWS 62 dt. 27.3.1965 to furnish information on the points of observation of Secretary at para 217 ante. He has been reminded on 2.8.1965. No reply has been received so far. Another D.O. is put up for approval which may be issued under the signature of Secretary PWD & Elec.	(285
	11.8.65	
	12/8/65	(286
	M. CHANNAPPA, Dy. Secy. to Govt. P.W.D. (Irrgn.)	
	Secy P.WD	
	I have also spoken to C.E. (IP). He had promised to look into this urgently.	(287
	C.E. 12/8/65	
	Issued Dated 13/8/65	

Stitching space

SECRETARY TO GOVERNMENT No. PWS 57/91 12 AUG 1965 PUBLIC WORKS & ELEC. DEPT.

Note Continuation Sheet

Subject: Bangalore water supply & Sewerage projects

File No. PWD 141 GTW 62

WD 014899—GPB—8,00,000—5-12-64

Reference and markings	Notes and Orders.	Para Numbers
	Receipt of page 473 diary No T 1170/Sec	(288
	orders of the Secy PWD on the receipt.	
	P.P. on 13-8-65	
	JC. 12/8	
	paper shown to the Secy PWD. on 13-8-65. and received instructions.	(289
	As per oral orders of the Secy. an ad-interim reply to Chairman B.W.S.&S. Board is put up at page 474 C.F for approval.	(290
	17.8.65	(291
	ISSUED Dated 20-8-65	
	18/8/65	(292
	Recd. No reply has so far been received from the C.S. Dy. Minister due in the matter. Another reminder is putup for approval. 17/9	(293
	18/9/65	(294
	ISSUED Dated 21/9/65	

Stitching space

476 JC 2/9

Note Continuation Sheet

Subject..... File No.....

Reference and markings	Notes and Orders.	Para Numbers
	The letter of the Chairman, Bangalore Water Supply & Sewerage Board, dated 17th September, 1965, placed at page 476 of the case note may be perused. He desire the decision of the Govt. regarding drawing of Cauvery water from Netkal Balancing Reservoir for the Bangalore Long Range Water Supply and also drawing of water from Kabini Storage Dam for the same project may be taken earlier and communicated since World Bank Team which is here is very particular on this decision.	295.
	In this connection the notes in paras 211 to 217 of the case note may be perused. A copy of the proceedings of the M.I.P.C. Board referred to in para 215 may please be seen at pages 223-227 of the case file. Regarding the points 2,3,4, the C.E.(I.P.) has been addressed in two or three letters (vide paras 285-287 of the case note). A D.O reminder has also been issued on 21-9-65 vide page 477 of the case file.	296.
	Regarding drawing of water from the Netkal Balancing Reservoir the letter of the Chief Engineer, H.E.C.P. dated 4-3-65 vide pages 469/1 of the case file and the letter of the Chief Engineer General, M.S.E.B. placed at page 469/2-3 may be perused. Chief Engineer General, M.S.E.B. indicates the general possibility of drawing up of	297.

Stitching space

Note Continuation Sheet

Subject..... File No.....

Reference and markings	Notes and Orders	Para Numbers
	water from Netkal Balancing Reservoir but he feels that there would be difficulty in granting preferential rights as it would jeopardise the interest of power generation when more than 600 cusecs of water is required for power generation at Shimsha. Therefore he suggests that the Water Supply Board may be suitably advised to be prepared to have their own water system as the Board will not be able to draw 300 cusecs through the power generation in the event discharges for power generation exceed 600 cusecs, which may happen if additional power development is taken up at Shimsha.	
	In this context it may be said that in view of the availability of large quantum of power from Sharavathy, there may not be any necessity of additional power development at Shimsha. The proposal of having Hogenkal project as a joint venture of Mysore and Madras Governments and also that of taking a power project scheme across Cauvery within our State itself (lower down Shimsha) are under consideration separately. Such being the case there may not be any proposal for generation of additional power at Shimsha and such a contingency as anticipated by the Chief Engineer General, M.S.E.B. may not arise at all.	298.

Stitching Space

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Note Continuation Sheet

Subject.....

PWD 141 GTW62

File No.....

WD 014899—GPB—3,00,000—17-6-65

Reference and markings	Notes and Orders	Para Number
	Regarding reservation of 1.2 T.M.Cft. of water in the Kabini Reservoir for Bangalore Water Supply scheme the proceedings of the Technical Sub-committee of M.I.P.C.Board at pages 423-427 clarifies that such a provision is already made in the project report, and it is learnt over phone from the Superintending Engineer (Designs) of the office of the Chief Engineer (I.P.) that the cost of 1.2 T.M.Cft. of water would be 60 to 65 lakhs. With this available information it may perhaps be possible to take a decision regarding assurance of water supply to the Long Range water Supply Scheme, Bangalore ~~over the power generation~~ and the draft G.O. placed at pages 419-421 may perhaps be considered and orders issued without further awaiting for a reply from the Chief Engineer (I.P.).	299.
	If it is felt such a decision requires consultation with the Chairman, M.S.E.B. and Chief Engineer(I.P.) I suggest a meeting of the following officers may be held in the chambers of the Secretary, P.W.D. and final decision taken in the matter. 1) Chairman, M.S.E.B. 2) Chairman, B'lore Water Supply & Sewerage Board. 3) Secretary, P.W.D. 4) Chief Engineer (I.P.) For perusal and orders.	300.

Remaining space

SECRETARY TO GOVERNMENT No. PWS 5893 23 SEP 1965 PUBLIC WORKS & ELEC. DEPT.

JOINT SECRETARY TO GOVT. No. 9446 22 SEP 1965 PUBLIC WORKS DEPARTMENT

22/9/65

22.9.65 (M.Channappa)
Deputy Secretary to Govt.
P.W.D.(Irrgn.)

~~JT.SECY.PW&E.~~
SECY.PW&E.DEPT.

(B. V. VITTAL MURTHY)
Jt. Secy. P.W. & Elec. Dept. (Irrn.)

(301)

Note Continuation Sheet

Subject .....

File No. AD 1(1)GTW 62

WD 014899—GPB—8,00,000—17-6-65

Reference and markings	Notes and Orders	Para Numbers
	This subject was discussed on 27.9.65 in the Board's meeting. A brief note explaining the case may be given to me. CK 27/9 DS(I)	302
	CM 28/9/65	303
	A note is put up for kind perusal of the Secy. 27.9.65	304
	Secy. what is the use of putting up the note after the meeting is over? CK 27/9	305

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P.T.O.

Put further if happen today

A note as placed (c/w). Maybe discussed if the Secy. possible.

27/9

DIRECTORY TO GOVERNMENT
No. PWS. 5934
27 SEP 1965
Secretary
WORKS & ELEC. DEPT.

7/10

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Note Continuation Sheet

Subject Bangalore water Supply and Sewerage projects **File No.** PWD 14 IGT 56

Reference and markings	Notes and Orders.	Para Numbers
	This may kindly be submitted to the Secretary PWD for his perusal of paras 295 to 300 of the case note and for orders whether a meeting consisting of the following officers 1) Chairman M.S.E. Bd 2) Chairman B.W.S. & S. Board 3) Secretary PWD 4) Chief Engineer Irr B/ln as suggested at para 300 ante may be called for in order to arrive at a final decision in the matter. DS 7/10/65 8 Ch 8.10.65	306 307
	CM 8/10/65 M. CHANNAPPA, Dy. Secy. to Govt. P.W.D. (Irrgn.)	308
	Secy PWD) DS (I) SECRETARY TO GOVERNMENT No. PWD 605-7 - 8 OCT 1965 PUBLIC WORKS & ELEC. DEPT.	
	pl. discuss. Ch 10/10 DS (I)	309
	The suggestion in para 300 is approved. Ch 13/10	
	pl consult the Comm and fix up a meeting CM 13/10/65	311

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Note Continuation Sheet

Subject .....

File No. AD 14/GTW 62

WD 014899—SPB—8,00,000—17.8.65

Reference and markings	Notes and Orders	Para Numbers
	This & similar cases will be discussed on 27.9.65 in the Board's meeting & brief note explaining in case in any be given to me. Ch 23/9. DS(I)	302
	CM 23/9/65	303
	A note is put up for kind perusal of the Secy. S. 27.9.65	304
	Secy. what is the use of putting up this note after the meeting is over? Ch 27/9	305

P.T.O.

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RECEIVED BY TO GOVERNMENT
No. 5934
27 SEP 1965
WORKS & ELEC. DEPT.

Note Continuation Sheet

Subject ..... Bangalore Water Supply Scheme

File No. PWD 141 CT 65

WD 014899—GPB—8,00,000—17-6-65

Reference and markings	Notes and Orders	Para Numbers
(312)	The meeting may be fixed to take place at 11 am on 25.10.65. The CE IP and Chairman BWSSB have no engagements on that day. D/S(I) 16/X/65 P.T.	
(313)	The draft notice may be issued. 16/10/65	
	16/10/65	
	Issued Dated 18/10/65	
	314) The proposed meeting was held in the Chambers of the Secretary, P.W.D. when the Chairman, M.S.E.B., Chairman, Bangalore Water Supply & Sewerage Board, Chief Engineer (Irrigation Projects), Chief Engineer, Bangalore Water Supply & Sewerage Board, were also present.	
	315) The Chairman, M.S.E.B. explained that in the present context the Bangalore Water Supply & Sewerage Board will have to do number of Civil Engineering works in order to draw 300 cusecs of water from the existing power channel from Shivasamudram anecut upto Netkal Balancing Reservoir. In view of the necessity to draw more quantity of water from	

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Note Continuation Sheet

Subject..... **File No**.....

References and markings	Notes and Orders.	Para Numbers
	the same power channel ~~for increased power~~ ~~for channel~~ for increased power production at Shimsha, the Canal may have to be widened in future. The cost of this will have to be borne by the Bangalore Water Supply & Sewerage Board.	
	316) Regarding reservation of 1.2 T.M.Cft. of water in the Kabini Reservoir for Bangalore Water supply scheme, the Chief Engineer(I.P) informed that ~~that~~ is quantity of water (as per the Bangalore Long Range Water Supply) intended to be drawn during the summer period of 4 months when the River flow in Cauvery will be insufficient. But it is not indicated ~~opined~~ / ~~to be~~ ~~not out~~ in the Project Report ~~as~~ that the ~~the sufficiency of~~ water in the Cauvery River during the remaining part of 8 months is sufficient taking into consideration the release of water to Madras Govt. as per 1924 agreement. If the River flow were to be of the order as to meet the demand of additional water supply and also to maintain the release as per the agreement at Shivasamudram Anecut the position would be safe; as otherwise the quantity of water required for Bangalore Water Supply will have to be released from K.R.S. in addition to release to Madras Govt. as per 1924 agreement, which in that context would be a burden on K.R.S. and its legitimate attract	

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Note Continuation Sheet

Subject..... File No.....

References and markings	Notes and Orders.	Para Numbers
	may have to suffer. This point is to be clarified and examined with reference to the preliminary project report of the project and the matter to be discussed again.	
	317) In view of the above it was desired that a further meeting may be held in the chambers of the Secretary, P.W.D, after hearing from the Chairman of B.W.S.S.B. 25/10/65 (M.Channappa) Deputy Secretary to Govt. P.W.D.(Irrigation)	
25/10	318) The matter has again been discussed in the chambers of the Secretary today when the C.E. Bangalore Water Supply & Sewerage Board and the C.E.(IP) were present. The information so far collected by the Chief Engineer of the Board has revealed that except for about 143 days during the rest of the days the inflow at Shivasamudram anecut is above 1,500 cusecs, but it cannot be said to be over and above the limited flows due to Madras Govt. With the construction of Kabini Reservoir it is possible that the natural flows in Kabini would get reduced and thereby the limited flows from K.R.S. at Shivasamudram Anecut will have to be kept going according to the agreement either by.	

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Note Continuation Sheet

Subject ..... File No.....

WD 014399—GPB—8,00,000—17-6-65

Reference and markings	Notes and Orders	Para Numbers
	either by releasing water from Kabini or K.R.S. Hence the point to be examined now is that the releases from K.R.S. and the natural flow from the drainage below would be over and above the limited flows and would also meet the needs of Bangalore Water Supply, as otherwise the needs of Bangalore Water Supply will have to be met either from K.R.S. or from Kabini Reservoir.	
	319) The Chief Engineer of the Board informed that the requirements of water would be 2.4 T.M.Cft. based on 60 M.G.D, ~~and~~ it has been wrongly calculated as 1.2 times by mistake 30 M.G.D. ~~and it was assumed that 1.2 T.M.Cft.~~ Would be ~~required from Kabini.~~ ~~Hence~~ The present requirement would be 2.4 M.G.D. The Chief Engineer (I.P.) opined that this extra can be manupulated from the storage of Harangi, Hemavathy and Kabini. But the point to be examined is that the flow at Shivasamudram anecut would not infringe the Madras Agreement. It was decided to meet again after collecting the above information and take a decision in the matter.	
	21/10/67 (M.Channappa) Dy.Secretary to Govt. P.W.D.(Irrgn.)	
	~~SECRETARY, PWD.~~)	

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Note Continuation Sheet

Subject: Bangalore water supply & sewerage project — Kabini storage Dam.

File No. PWD 141 GTW 6.

References and markings	Notes and Orders	Para Numbers
	Receipt at page 478 diary no 2166/Spl.	
	The Chief Engineer (IP) has ~~sent~~ furnished the clarification asked for by Govt. regarding the reservation of certain storage in Kabini dam for the Bangalore water supply. His report is placed at page 478 D/C7. For perusal.	320
	Nagaraj 17/11/68 — 17/11/68	321
	It seems Secretary PWD had a telephonic conversation with CE (IP) regarding assurance of water supply to Bangalore L.A.W.S. Scheme yesterday and desired a D.O letter to go to Sri. T. M. Magdum - CE (IP) in continuation of the conversation for a specific assurance. Pl put up a draft D.O.	322
	~~A draft D.O letter~~ 17/11/68	
	P.T.O.	

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Note Continuation Sheet

Subject Bangalore Water Supply & Sewerage Project.

File No. PWD 141 GTW 62

WD 814893—GPB—8,00,000—17-6-65

Reference and markings	Notes and Orders	Para Numbers
	A draft D.O letter is put up at page 479 for approval.	322
	For perusal	324
	Secy (P. WD)	
	N. CHANNAPPA, Dy. Sec. to Govt. P.W.D. (Irrgn.)	
	The Chief Engineer B.W.S & S.B. has also addressed CE (IP) in his letter dated 19/11/65 vide page 480 of C/F and forwarded a Copy to Govt for information	355
	ISSUED Dated 19/11/65	

SECRETARY TO GOVERNMENT No. PWS 693.2 Date 17 NOV 1965 PUBLIC WORKS & ELEC. DEPT.

356) The Chief Engineer (I.P.) has been addressed in Govt. letter No.PWD.141 GTW 62 dated 19.11.65 vide page 479 of the case file. The Chief Engineer, B.W.& S.Board has also addressed a letter to the Chief Engineer (I.P) in his letter No.4886-89/65 dated 19.11.65 vide page 480 of the case file requesting him to assure 300 cusecs of water at Sivasamudram Anecut for Bangalore Water Supply scheme, copy of that letter forwarded to Govt. may please be seen at page 480 of the

Note Continuation Sheet

Subject..... File No.....

References and markings	Notes and Orders	Para Numbers
	of the case file.	
	357) The matter has been further discussed today in the Chief Minister's chamber during the review of the progress of Bangalore Water Supply & Sewerage works. The chairman of the Board desired to have the file to record the details of discussion had during the the meeting in the Chief Minister's chambers, so that orders of Govt. may be expedited in the matter. Accordingly the file is sent herewith for needful and immediate return.	
	19/11/65 (M.Channappa) Dy.Secretary to Govt. P.W.D. (Irrigation)	
	CHAIRMAN,) B.W.&S.BD.) **Immediate**	
	GUARANTEE OF WATER SOURCE FOR BANGALORE WATER SUPPLY AND SEWERAGE PROJECT.	
	358) The question was discussed in detail at the meeting held in the Chief Minister's chambers yesterday (19-11-1965) - The Minister, Municipal Administration Department and the Minister for Public Works Department were present, as also the Secretaries to Government - and the need for issue of Government Orders assuring supply of (a) 150 cusecs of water for the Bangalore Water Supply and Sewerage Board during the 1st stage and (2) an additional 150 cusecs later on, for the 2nd stage (300 cusecs in all), through the power channel from Shivanasamudra Anicut to Netkal Balancing Reservoir, was explained. It was also pointed out that the World Bank authorities and the Consultant	

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OFFICE OF THE CHAIRMAN, B'LORE WATER SUPPLY & SEWERAGE BOARD
No. CH: 202/65
Date 20/11/65
BANGALORE-1.

Note Continuation Sheet

Subject..... File No.....

WD 814803—GPB—8,00,000—17-6-61

Reference and markings	Notes and Orders	Para Numbers

were both pressing for this guarantee re: the source of water as this had to be got incorporated in the project report urgently. The Chief Engineer, Bangalore Water Supply and Sewerage Board had already held discussions with the Chief Engineer (Irrigation Projects).

359) Since 300 cusecs of water corresponding to the four lean months of Cauvery amounted to less than 3 T.M.C., it was decided after discussion, that necessary orders guaranteeing the above continuous supplies of water be issued immediately. The Chief Engineer (Irrigation Projects) has to be requested to arrange the said supplies by regulating the same either from Krishnaraja Sagar or Kabini Reservoirs as and when necessary. The Mysore State Electricity Board has to be requested to enter into an agreement with the Bangalore Water Supply and Sewerage Board for the latter Board drawing its above requirements of water through the power channel from Shivanasamudra Anicut to Netkal Balancing Reservoir.

360) The favour of very urgent action is requested because the World Bank authorities and the Consulting Engineers are anxious that this question of water source should be cleared up immediately.

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OFFICE OF THE CHIEF MINISTER No. 9722 25 NOV 1965 BANGALORE.

BANGALORE WATER S... No. C.H. 2-2/6... Date 20/11/65

SECRETARY TO GOVERNMENT No. PWD 6932 Date 20 NOV 1965 PUBLIC WORKS & ELEC. DEPT.

(K. Narayanaswamy),
Chairman,
Bangalore Water Supply and
Sewerage Board.

(361)

SECRETARY, P.W.D.

OFFICE OF THE MINISTER FOR PUBLIC WORKS NO. 2291 22 NOV 1965 BANGALORE.

CHANDAPPA PATEL
Secy. P. W. & Elecy. Dept.

(362)

(VEERENDRA PATIL),
Minister for Public Works.

Note Continuation Sheet

Subject: Water Supply to Bangalore File No. PWD 141 GTW 62

Reference and markings	Notes and Orders.	Para Numbers
9722 (363	25/11/65 NIJALINGAPPA Chief Minister	
	Secy (PWD) 26/11/65	(364
	Submit with a draft G.O. for perusal & approval. D/S(I) may also see the same. 30/11	(365
	The draft G.O as ammended may please be typed and put up on 2/11/65 1/12/65 DS(I).	(366
	The typed draft G.O. as amended is placed at pages 481–485 of C.F. for approval. 2/12	(367
	The typed draft G.O. placed at Pages 481 to 485 of C.F. may please be perused and approved before issue — 2/12/65 M. CHANNAPPA, By. Secy. to Govt. P.W.D. (Irrgn.)	
	Secy P.WD)	
	CC 2/12	
	Issue 8/12/65	
	ASSTT. 11/12/65	

SECRETARY TO GOVERNMENT No. ..... Date 26 NOV 1965 PUBLIC WORKS & EL. G. DEPT.

SECRETARY TO GOVERNMENT No. PWS 71/33 Date 2-DEC 1965 PUBLIC WORKS & ELEC. DEPT.

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PWD 272/PSC/2686

Note Continuation Sheet

Subject..... File No.....

Reference and markings	Notes and Orde s.	Para Numbers

Stitching marks

PWD 141 GTW 62.

CABINET NOTE

Long Range Water Supply Scheme to Bangalore.

MYSORE GOVT. SECRETARIAT
No. C 278/62
10 OCT 1962
G.A.D. (COUNCIL SECTION)

E.C.
16/10/62

The subject was discussed at the sixth meeting of the Cabinet of Ministers held at Bangalore on 31-3-1962 and it was decided to authorise the Chief Engineer (General) to investigate the three schemes, viz. (1) Hallimala-Cauvery Combination, (2) Shimsha-Cauvery Combination and (3) Cauvery alone, so as to enable Government to take a final decision about the scheme to be taken up as a Long Range Water Supply to Bangalore. Accordingly, in Government Order No.PWD 47 SCO 62 dated 13-4-1962, a Special Public Works Division with three Sub-Divisions was sanctioned for a period of six months for the investigation work and the Chief Engineer (General) was requested to forward a report to Government within that sanctioned period.

2 After detailed surveys and investigations, the Chief Engineer has now forwarded the report to Government, with detailed plans and estimates, in respect of all the three alternatives. The salient features of the sources of supply in respect of the three alternatives, the advantages and disadvantages of each of the alternatives together with their financial implications are give below:-

Source of supply

(A) ARKAVATHY

Advantages:- (i) The Hallimala site is an ideal site for locating water supply reservoir;

(ii) The water stored at this site can be led by gravity to the purification work which are

proposed to be located near Ramanagaram. This is a great advantage in that there is no need for providing schools, hospitals etc. for the colony;

(iii) The total pumping head is 938 feet and this is negotiated in two stages, as against the four stages of pumping and a total lift of 1,450 feet in case of Cauvery and Shimsha schemes;

(iv) The length of the pipe line is half the length in the other schemes.

Dis-advantages:- (i) The dam at Hallimala will submerge 3,295 acres of fertile land, 6 villages and 21 hamlets. The number of people to be displaced is about 10,000. One of the villages coming under submersion is Suggenahalli which is commercially important and a growing village with a population of 3,000. The acquisition of lands required for the construction of the dam will retard the execution of the scheme;

(ii) Arkavathi has been the source of Bangalore water supply since the beginning. The ryots of the valley have been deprived of the benefits of irrigation so far and it is not desirable to further curtail irrigation in the valley by putti up this big dam at Hallimala for Water Supply pur poses;

(iii) With the construction of Hallimala dam as a source of water supply to Bangalore for the first stage, Bangalore Water Supply will be entir ly dependent on one valley viz. Arkavathi. With the failure of rains in this valley, the entire supply will be radically affected. It is not des able to depend upon for water supply to a metropolitan city like Bangalore on only one valley;

(iv) Arkavathi source can supply only 25 million gallons per day. A second source viz., Cauvery has to be thought of for the second stage.

(B) SHIMSHA

Advantages:- (i) No storage dam is required as the river has a minimum perennial flow of about 65 cusecs. There is no submersion and hence the question of acquisition of lands for submersion does not arise;

(ii) Shimsha is a non-Agreemental river and Shimsha waters are now being let down to flow to Madras State. Hence, it can be advantageously tapped for Bangalore Water Supply. The possibilities of using this water for further irrigation are rather bleak in view of the fact that there will be submersion of valuable lands if any dam is proposed up-stream of Halagur Bridge and below the bridge there is no land for development of irrigation;

(iii) This can be easily connected with Cauvery scheme for the second stage.

Dis-advantages:- (i) The quality of water, being the seepage from the Visvesvaraya Canal irrigated tract where the lands are heavily manured, is not as good as Cauvery water. The reports of analysis, however, do not indicate any marked difference between the Shimsha water and Cauvery water;

(ii) It may not be desirable to depend upon seepage for water supply to a metropolitan city like Bangalore;

(iii) Water has to be lifted by a low-lift pump-house, before it is let down to the purification works;

(iv) This source cannot meet the ultimate demands and it is very necessary to go to Cauvery for the final stage. The alignment beyond the purification works is exactly the same as that to be followed in the Cauvery Scheme.

(C) CAUVERY

Advantages:- (i) Cauvery is a perennial river and it affords a permanent solution for all the future needs of water supply to Bangalore;

(ii) During the summer months when the Cauvery discharge is insufficient to meet water supply needs, water can be drawn from the storage reservoir across Kabini under construction;

(iii) It is proposed to utilise the waters of Cauvery from the Shivasamudram anicut. There is an existing power channel capable of conveying 1,200 cusecs of water from Shivasamudram anicut to Forbe's Reservoir at Shivasamudram. From the Forbe's Reservoir to the Netkal Balancing Reservoir, there is another channel designed to convey about 900 cusecs of water. As the Shimsha Power Station is utilising only about 300 cusecs of water, it is proposed to make use of the designed capacity of the existing power channel to convey the requirement of water supply also;

(iv) Levels permit ~~the~~ bringing Cauvery water from Netkal Balancing Reservoir to the purification works near Halagur on the Bank of Shimsha by gravity over a distance of six miles. This eliminates the necessity of having the low-lift pumping that was required in the Shimsha scheme. Beyond Halagur the alignment is practically the same and has all the advantages of the Shimsha Scheme.

3. The statement showing the comparison between the three sources mentioned above for the first stage of the scheme indicating the financial implication, is given below:-

Details	Arkavathi scheme	Shimsha scheme	Cauvery alone
	I Stage	I Stage	I Stage
1) Supply available	25 M.G.D.	30 M.G.D.	30 M.G.D.
2) Submersion	3295 acres	-	-
3) Cost of storage and head works.	Rs,4,38,00,000/-	3,95,000/-	65,94,000/-
4) Cost of pipe line	3,21,00,000/-	5,80,00,000/-	6,23,00,000/-
5) Cost of treatment plant.	46,00,000/-	60,00,000/-	60,00,000/-
6) Total cost of the scheme.	Rs.10.10 crores	Rs.8.80 crores	Rs.9.88 crores
7) Annual M&R charges	1,11,03,000/-	1,22,57,000/-	1,27,64,000/-
8) Total capitalised cost.	17.07 crores (for 25 MGD)	18.80 crores (for 30 MGD)	19.60 crores (for 30 MGD)
9) Cost per 1,000 glns.	1.22	1.12	1.16

4. The first and second stage of works for a supply of 30 and 60 Million Gallons per Day respectively are to be taken up in quick succession to satisfy the water supply needs of the city, as the growth of population is phenomenal. Both Arkavathi and Shimsha are not dependable for the second stage supply. In either case it is necessary to tap Cauvery for the second stage of water supply. So, a study of the following combinations ~~with~~ for an ultimate supply of 60 million gallons per day is described in detail:-

(1) Hallimala-Cauvery Combination:-

In this combination, Cauvery scheme is to supply 35 million gallons per day, as Arkavathy can only supply 25 million gallons per day, to make up a total supply of 60 million gallons per day for the ultimate stage. The purification works for the Cauvery waters

have to be located at Halagur which is very far away from the purification works for the first stage. This diversity of location of pipe line and purification works is a great dis-advantage and adds to the cost of its maintenance. This combination has all the dis-advantages of the Ar-kavathi scheme described earlier.

(2) Shimsha-Cauvery Combination:-

In this combination, it is proposed to supply 30 M.G.D. from Shimsha for the first stage, to be supplemented by 30 M.G.D. from Cauvery for the second stage. The advantages of the combination are the same as described under advantages of Shimsha and Cauvery Schemes earlier. But, however, whether it is correct to tap Shimsha which is use-ful for a short time when it is obligatory to go to the Cauvery for the second stage in the very near future, is a point for consideration. In this combination, the purification works can be located side by side and the two raising mains aligned side by side. This adds to a lot of flexibility in operation and maintenance. One main will function as a stand-by, in case the other fails.

(3) Cauvery alone:-

This has all the advantages of the Cauvery Scheme described in the foregoing paragraphs and also satisfies the psychological needs of the population of Bangalore.

5 A comparative statement of costs of all the three combinations is given below:-

Name of Combination	Supply in M.G.D.	Cost in Crores	Capitalised cost of annual charges in crores	Total Capitalised cost in crores	Rate per 1,000 gallons
HALLIMALA-CAUVERY	60	10.10 + 10.98 = 21.08	18.07	39.15	Rs.1.18
SHIMSHA-CAUVERY	60	8.80 + 8.78 = 17.58	19.65	37.23	Rs.1.10
CAUVERY ALONE	60	9.88 + 8.06 = 17.94	19.34	37.28	Rs.1.11

A study of the combination indicates that the Hallimala-Cauvery combination is the costliest and hence needs no further consideration. The Shimsha-Cauvery Combination and the Cauvery alone costs practically the same, as can be seen from the statement above.

~~5.~~ Alternative proposal to have a single raising main of 72" diameter ~~can be~~ capable of conveying the ultimate requirement of 60 millions gallons per day, ~~water,~~ instead of having 2 raising mains of 54" diameter each for the first and second stages of development.

6. In both Shimsha-Cauvery and Cauvery alone schemes, the second stage proposals include duplication of the entire raising main from the purification works, ~~and~~ additional purification works, and pumping machinery etc. It is considered more economical and business-like to design the pumping main which constitutes a major operation of the cost of the scheme, to suit the ultimate needs. This is more so, because the time lag ~~has~~ that is now proposed between the first and second stages is about five years only. With this view, the different

combinations have been re-examined, and it is found that there will be a saving of nearly Rs.5 crores in case a single raising main of 72" diameter for the ultimate needs is adopted in these combinations. The comparative statement of costs of the two combinations in this case is given below:-

Name of Combination	Supply in M.G.D.	Cost in Crores	Capitalised cost of annual charges (in crores)	Total cost in crores	Rate per 1000 gallons.
SHIMSHA-CAUVERY	60	10.34 + 2.24 = 12.58	19.35	31.93	Rs.0.945
CAUVERY ALONE	60	11.40 + 1.58 = 12.98	19.04	32.02	Rs.0.95

From the statement, it is seen that in the case of Shimsha-Cauvery Combination with a single raising main, it will be necessary to spend Rs.10.34 crores in the first stage and Rs.2.24 crores only in the second stage to add additional treatment units and extra pump-sets. The cost per thousand gallons will be Rs.1.20 in the first stage, and Rs.0.95 in the second stage. Similarly, for the scheme from Cauvery alone it will be necessary to spend Rs. 11.40 crores in the first stage and only Rs.1.58 crores in the second stage. The cost per thousand gallons of water will be Rs.1.25 in the first stage, and Rs.0.95 in the second stage. Hence, it is clear that the rate per thousand gallons in both the cases in their ultimate stage, is the same, viz. Rs.0.95 per thousand gallons.

7 The Chief Engineer (General) has recommended to Government to sanction the Long Range Water Supply Scheme to Bangalore ~~that~~ with a single raising main of ~~22~~ 72" diameter as there will be a saving of Rs.5 crores in this case. He has also recommended

9

to Government for the continuance of the existing Division with three sub-divisions for a further period of one year to work out the preliminaries viz. (a) detailed tender schedules for the various works (b) specifications for the pipe line and (c) details regarding the acquisition of land, all along the pipe line etc.

8. The points for consideration of the Cabinet are:-

(1) whether to approve the Shimsha-Cauvery Combination, or the scheme from Cauvery alone to get the ultimate requirements to 60 M.G.D. to Bangalore City, with a single raising main of 72" diameter;

(2) to forward the detailed estimates and plans prepared by the Chief Engineer in ~~stead~~ respect of the scheme to be approved by the Cabinet, to the Government of India in the Ministry of Health, for their technical clearance and to get the necessary financial assistance for the execution of the scheme in continuation of this Government letter No.PLM 14 GCS 62 dated 4-6-1962;

(3) continuation of the existing Division with three sub-divisions, for a further period of one year as recommended by the Chief Engineer (General).

BRP/-)
1-10-62)

Secy to Govt PWD&E

1.10.62

From

The Secretary to the Government of Mysore,
PH, Lab. & Ml.Admn. Department.

To

The Secretary to the Government of India,
Ministry of Health,
New Delhi.

3 copies on

Issued
Dated

Sir,

Sub: Scheme for Long Range Water supply to City of Bangalore - Central Assistance.

In continuation of this Government letter No.PWD 14 GOS 62 dated 4th June 1962 regarding the above subject, I am directed to state that after ~~the~~ a detailed investigation of several sources of water supply to Bangalore City, the State Government have approved the scheme to bring water from Cauvery to meet the ultimate requirement of 60 million gallons per ~~diem~~ day. It has also been decided to have a single rising main of 72" ~~dia~~ diameter for this scheme, as this would result in a saving of about Rs.5 Crores compared to the alternative of having two rising mains of 54" dia each. The total cost of the scheme is 12.98 Crores, of which the first stage to deliver 30 M.G.D will cost Rs.11.40 Crores and the second stage to deliver balance 30 M.G.D. Rs.1.58 Crores. Detailed estimates and plans of this scheme as approved by the State Government are enclosed herewith.

2. As already explained in this Government's letter mentioned above, it is absolutely necessary to put this scheme into execution immediately to (i) overcome the present ~~xxxx~~ acute shortage of water supply in Bangalore and (ii) meet the ever growing needs of future. The State Governmen

have made a provision of only Rs.15 lakhs in the III Five Year Plan for the investigation of this scheme. As the State Government are not in a position to meet the cost of the scheme, it is earnestly requested that the Government of India may please be moved to meet the cost of the scheme on grant-in-aid cum loan basis 50:50 basis i.e., 50 per cent being given as a grant and the other 50 per cent, as a loan, as requested earlier.

3. It is requested that the matter may please be treated as on top-most priority and the decision of the Government of India communicated to this Government, as early as possible.

Yours faithfully,

Secretary to Government,
PH, Lab. & Ml.Admn.

DRAFT D.O.

S.NIJALINGAPPA,
Chief Minister.

Vidhana Soudha,
Bangalore, dt. Octr.1962.

~~Dear (Pandit Ji)~~

Dear (Dr.Susila Nayyar)

~~Dear Shri (Morarji Desai)~~

Sub: Scheme for Long Range Water supply to City of Bangalore- Central Assistance.

The present supply of water to Bangalore City is about 10 to 12 gallons per capita per ~~diem~~ day which is far from adequate. This problem has become all the more acute due to rapid expansion of the City in recent years, as a result of (i) location of important industries in and around the City and ~~after it~~ (ii) the City having become the capital of the enlarged State of Mysore. As a short term measure, the State Government have taken up two schemes at a total cost of Rs.285 lakhs with a view to increasing the present supply of 17 million gallons per ~~day~~ diem day to about 28 million gallons per ~~day~~ diem day and these schemes are expected to be completed by December 1963. Even with this increased supply of water, the per capita consumption would be only of the order of 17 to 18 gallons per ~~diem~~ day, which is only 50% of the normal requirements. It is also essential to plan in advance to cater for future expansion, the City which is taking place at a phenomenal rate. To find a proper and permanent solution to this problem of water supply to the growing City, the State Government has investigated, in detail, all the possible sources and have recently taken a decision to bring the water from Cauvery so as to get the ultimate additional requirement of 60 million gallons per day, for a prospective population obtaining at the end of next

I understand that the question of financing Urban Water Supply Schemes was considered at the conference of the Minister of L.S.G. held recently at Calcutta and that the International Development Association has very recently decided to consider favourably requests for financial assistance for taking up Water Supply Schemes provided each scheme costs not less than Rs.5 crores. The Long Range Water Supply Scheme, Bangalore is eminently suitable for being taken up with the assistance of the International Development Association. On a previous visit here you have fully appreciated that Bangalore is passing through a critical phase in regard to water supply and something must be done urgently to put into execution immediately the Long Range Water Supply Scheme. I am sure the Central Health Ministry will give top priority to this scheme in making their recommendations for assistance from the International Development Association.

next 25 years. The cost of this scheme would be Rs.12.98 Crores. It is proposed to put one single rising main of 72" diameter for the ultimate needs, since, this would save about Rs.5 Crores as compared to the alternative of having two rising mains of 54" dia. The expenditure for the first stage to deliver 30M.G.D. would be about 11.40 Crores and that for the second stage to deliver the balance 30 M.G.D, would be 1.58 Crores. The detailed plans and estimates of the scheme have been forwarded to the Ministry of Health, Government of India under this Government's letter No..... dt.....

In view of the various other commitments, this Government are not in a position to meet the ~~entire~~ cost of the scheme. Therefore, this Government have approached Government of India to sanction necessary central assistance for the execution of the scheme on 50 : 50 basis, 50 per cent being given as grant and other 50 per cent as a loan - a copy of this Government's letter in this behalf is enclosed herewith for your ready reference.

I would now earnestly request you ~~to~~ kindly to see that the necessary central assistance asked for the execution of the long range water supply scheme to Bangalore is secured. I am writing this letter to you personally as it is necessary to avoid ~~the~~ any imminent crisis due to shortage of drinking water supply to the City's growing population, by taking up this long range water supply on an urgent ~~basis~~ basis.

Favour of early action in the matter is requested.

With best regards,

Yours sincerely,

(S.Nijalingappa)

GOVERNMENT OF MYSORE

4 f 4 G C S 62

[redacted] Three Books.

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, Dated: 5-11- 1962.
SE.1883.

From

The Secretary to Government of Mysore,
Public Health, Labour and Municipal
Administration Department,
BANGALORE.

To

The Secretary to the Government of India,
Ministry of Health,
NEW DELHI.

Sir,

Sub:- Scheme for Long Range Water Supply to the City of Bangalore - Central Assistance.

In continuation of this Government letter No.PWD 14 GCS 62, dated 4th June 1962 regarding the above subject, I am directed to state that after a detailed investigation of several sources of water supply to Bangalore City, the State Government have approved the scheme to bring water from Cauvery to meet the ultimate requirement of 60 million gallons per day. It has also been decided to have a single raising main of 72" diameter for this scheme, as this would result in a saving of about Rs.5 crores compared to the alternative of having two raising mains of 54" diameter each. The total cost of the scheme is Rs.12.98 crores, of which the first stage to deliver 30 M.G.D. will cost Rs.11.40 crores and the Second stage to deliver balance 30 M.G.D. Rs.1.58 crores. Detailed estimates and plans of this scheme as approved by the State Government are enclosed herewith.

2. As already explained in this Government's letter mentioned above, it is absolutely necessary to put this scheme into execution immediately to (i) overcome the present acute shortage of water supply in Bangalore and (ii) meet the ever growing needs of future. The State Government have made a provision of only Rs.15 lakhs in the Third Five Year Plan for the investigation of this scheme. As the State Government are not in a position to meet the cost of the scheme, it is earnestly requested that the Government of India may please be moved to meet the cost of the scheme on grant-in-aid and loan basis i.e., 50 per cent being given as a grant and the other 50 per cent, as a loan, as requested earlier.

3. It is requested that the matter may please be treated as on top-most priority and the decision of the Government of India communicated to this Government, as early as possible.

Yours faithfully,

o/c)

(H.L. Lingaraj Urs),
Deputy Secretary to the Government,
PH, Labour and Municipal Admn. Dept.

'prk'2/511

SANJIV/2000/-

M.P. 147/62

15

ಕೃಷ್ಣಐಯ್ಯರ್,
ಬಿ. ಎಸ್‌ಸಿ.,
ಮೇಯರ್,
ಬೆಂಗಳೂರು ನಗರ ಕಾರ್ಪೊರೇಷನ್

ಕಾರ್ಪೊರೇಷನ್ ಕಛೇರಿ,
ಬೆಂಗಳೂರು

MAYOR OF THE CITY OF BANGALORE

OFFICE OF THE CHIEF MINISTER
NO.....
15 JAN 1963
BANGALORE.

Jan. 1963.

Dear Sir,

You are aware of the acute scarcity of water experienced in Bangalore and it is very gratifying that the State Government have approved taking up of Cauvery Water Supply Scheme. In view of the acute scarcity, the works have to be taken up on priority basis and completed at an early date. May I therefore request you kindly to see that the scheme is included in the next year's State Budget and necessary funds allotted for this work? It is requested that this matter may please be discussed with the Advisor to the Planning Commission who is now here in connection with discussions with the State Officers. If necessary the matter may also be moved in the next meeting of the National Development Council so that the work may be taken up immediately.

To discuss in the cabinet & personally tomorrow

Discuss 16/1/63

With kind regards,

Yours sincerely,

V. S. Krishna Iyer
(V.S. Krishna Iyer)

Shri S.Nijalingappa, B.A.,LL.B.,
Chief Minister,
Government of Mysore,
Bangalore.

Let F.D. examine the proposal given & advise what steps may be taken to release funds for taking up the scheme

16/1/63

Secy. (Finance)
to discuss on
25th January 1963.
In the meanwhile
he may examine
the proposal.

17/1/63
(B. D. JATTI,)
Minister for Finance.

Secy. (Fin.)

FMN (8)/63
1 JAN 1963

FINANCIAL SECRETARY
160
1 JAN 63
GOVERNMENT OF MYSORE

D. S. (B) pl discuss

(In the meanwhile pl call for D. P. ——

19/1/63

S. NIJALINGAPPA
CHIEF MINISTER

Draft D.O. letter

Dear (Dr. Susila Nayar)

Sub:- Scheme for Long Range Water Supply to City of Bangalore - Central Assistance -

The present supply of water to Bangalore City is about 10 to 12 gallons per capita per day which is far from adequate. This problem has become all the more acute due to the rapid expansion of the City in recent years, as a result of (i) location of important industries & including those of the Central Govt. in and around the City and (ii) the City having become the capital of the enlarged State of Mysore. As a short term measure, the State Government have taken up two schemes at a total cost of Rs.285 lakhs with a view to increas~~ing~~e the present supply of 17million gallons per day to about 28 million gallons per day and these schemes are expected to be completed by December 1963. Even with this increased supply of water, the per capita consumption would be only of the order of 17 to 18 gallons per day, which is only 50% of the normal requirements. It is also essential to plan in advance to cater for future expansion of the City, which is taking place at a phenomenal rate. To find a proper and permanent solution to this problem of water supply to the growing City, the State Government has investigated, in detail, all the possible sources and ~~having~~ have recently taken a decision to bring the water from Cauvery so as to get the ultimate additional requirement of 60 million

Continued.

gallons per day, for a prospective population of 2 to 2.5 millions which is expected to be reached ~~obtaining~~ at the end of next 25 years. The cost of this scheme would be Rs.12.98 Crores with first phase. It is proposed to put one single raising main of 72" diameter for the ultimate needs, since, this would save about Rs.5 Crores as compared to the alternative of having two raising mains of 54" dia. The expenditure for the first stage to deliver 30 M.G.D. would be about 11.40 crores and that for the second stage to deliver the balance 30 M.G.D. would be 1.58 Crores. The detailed plans and estimates of the scheme have been forwarded to the Ministry of Health, Government of India under this Government's letter No. ..... dt. .....

In view of the various other commitments, this Government are not in a position to meet the cost of the scheme. Therefore, this Government have approached Government of India to sanction necessary central assistance for the execution of the scheme on 50 : 50 basis, 50 per cent being given as grant and other 50 per cent as a loan - a copy of this Government's letter in this behalf is enclosed herewith for your ready reference.

I understand that the question of financing Urban Water Supply Schemes was considered at the conference of the Ministers of L.S.G. held recently at Calcutta and that the International Development Association has very recently decided to consider favourably requests for financial assistance for, taking up

Continued

Water Supply Schemes provided each scheme costs not less than Rs.5 crores. The Long Range Water Supply Scheme, Bangalore, is eminently suitable for being taken up with the assistance of the International Development Association. On a previous visit here, you have fully appreciated that Bangalore is passing through a critical phase in regard to water supply and that something must be done urgently to put into execution the Long Range Water Supply Scheme. I am sure the Central Health Ministry will give top priority to this scheme in making their recommendations for assistance from the International Development Association.

I would now earnestly request you kindly to see that the necessary central assistance asked for the execution of the long range water supply scheme to Bangalore is secured. I am writing this letter to you personally as it is necessary to avoid any imminent crisis due to shortage of drinking water supply to the City's growing population, by taking up this long range water supply on an urgent basis.

Favour of early action in the matter is requested.

With best regards,

Yours sincerely,

(S. NIJALINGAPPA)

'prk'1/711

NGAPPA, B.A., LL.B.
Chief Minister.

VJ 4522 E 19

"VIDHANA SOUDHA,"
BANGALORE-1,

Dated. 21st Nov. 1962

My Dear Doctor Nayar,

Sub:- Scheme for Long Range Water Supply to City of Bangalore - Central Assistance -

The present supply of water to Bangalore City is about 10 to 12 gallons per capita per day which is far from adequate. This problem has become all the more acute due to the rapid expansion of the City in recent years, as a result of (i) location of important industries including those of the Central Government in and around the City and (ii) the City having become the capital of the enlarged State of Mysore. As a short term measure, the State Government have taken up two schemes at a total cost of Rs.285 lakhs with a view to increase the present supply of 17 million gallons per day to about 28 million gallons per day and these schemes are expected to be completed by December 1963. Even with this increased supply of water, the per capita consumption would be only of the order of 17 to 18 gallons per day, which is only 50% of the normal requirements. It is also essential to plan in advance to cater for future expansion of the City, which is taking place at a phenomenal rate. To find a proper and permanent solution to this problem of water supply to the growing City, the State Government has investigated, in detail, all the possible sources and have recently taken a decision to bring the water from Cauvery so as to get the ultimate additional requirement of 60 million gallons per day, for a prospective population of 2 to 2.5 millions which is expected to be reached at the end of next 25 years. The cost of this scheme would be Rs.12.98 crores in its first phase. It is proposed to put one single raising main of 72" diameter for the ultimate needs, since, this would save about Rs.5 crores as compared to the alternative of having two raising mains

/---2

of 54" dia. The expenditure for the first stage to deliver 30 M.G.D. would be about 11.40 crores and that for the second stage to deliver the balance 30 M.G.D. would be 1.58 crores. The detailed plans and estimates of the scheme have been forwarded to the Ministry of Health, Government of India under this Government's letter No. PLM 14 GCS 62 dated 5th November 1962.

In view of the various other commitments, this Government are not in a position to meet the cost of the scheme. Therefore, this Government have approached Government of India to sanction necessary central assistance for the execution of the scheme on 50:50 basis, 50 per cent being given as grant and other 50 per cent as a loan - a copy of this Government's letter in this behalf is enclosed herewith for your ready reference.

I understand that the question of financing Urban Water Supply Schemes was considered at the conference of the Ministers of L.S.G. held recently at Calcutta and that the International Development Association has very recently decided to consider favourably requests for financial assistance for taking up Water Supply Schemes provided each scheme costs not less than Rs.5 crores. The Long Range Water Supply Scheme, Bangalore, is eminently suitable for being taken up with the assistance of the International Development Association. On a previous visit here, you have fully appreciated that Bangalore is passing through a critical phase in regard to water supply and that something must be done urgently to put into execution the Long Range Water Supply Scheme. I am sure the Central Health Ministry will give top priority to this scheme in making their recommendations for assistance from the International Development Association.

/----3.

I would now earnestly request you kindly to see that the necessary central assistance asked for the execution of the long range water supply scheme to Bangalore is secured. I am writing this letter to you personally as it is necessary to avoid any imminent crisis due to shortage of drinking water supply to the City's growing population, by taking up this long range water supply on an urgent basis.

Favour of early action in the matter is requested.

With best regards,

Yours sincerely,

(S.Nijalingappa)

Dr. Sushila Nayar,
Union Minister for Health,
New Delhi.

OT.

the letter No. PLM 14 GCS 62 dated 5-11-1962
e Secretary to the Government of Mysore, Public
Labour and Municipal Administration Department,
e to the Secretary to the Government of India,
y of Health, New Delhi.

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ct:- Scheme for Long Range Water Supply to the City of Bangalore - Central Assistance.

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n continuation of this Government letter No. PLM 14 , dated 4th June 1962 regarding the above subject, irected to state that after a detailed investigation ral sources of water supply to Bangalore City, the overnment have approved the scheme to bring water from Ca to meet the ultimate requirement of 60 million g per day. It has also been decided to have a single main of 72" diameter for this scheme, as this would a saving of about Rs.5 crores compared to the alter- having two raising mains of 54" diameter each, cost of the scheme is Rs.12.98 crores, of which stage to deliver 30 M.G.D. will cost Rs.11.40 crores e second stage to deliver balance 30 M.G.D. Rs.1.58 Detailed estimates and plans of this scheme as by the State Government are enclosed herewith.

As already explained in this Government's letter above, it is absolutely necessary to put this nto execution immediately to (1) overcome the present ortage of water supply in Bangalore and (2) meet the oing needs of future. The State Government have provision of only Rs.15 lakhs in the Third Five Year r the investigation of this scheme. As the State ent are not in a position to meet the cost of the it is earnestly requested that the Government of may please be moved to meet the cost of the scheme on in-aid and loan basis i.e., 50 per cent being given rant and the other 50 per cent, as a loan, as request e.

3. It is requested that the matter may please be treat most priority and the decision of the Government municated to this Government, as early as possible

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Yr 1 4523.33

Novr. 29, 2

My Dear Pandit ji,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr.Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the work in these factories. We are supplying water to these i tries in spite of the fact that it has affected consid the water supply to the other citizens of Bangalore. ur therefore very essential that the Centre should com ommis help in backing up this scheme. I wish the Plann sion also will kindly give due attention to the necessit helping the scheme.

I have also addressed letters to the other Members Planning Commission and to the Finance Minister. I h request will receive sympathetic consideration and ne help to finance the scheme would be forthcoming from

Yours Sincerely

(S Nijalingappa)

Shri Jawaharlal Nehru,
Prime Minister of India,
NEW DELHI.

KGC

VS 4523.33 E

Novr. 29,

My dear Morarji Bhai,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr. Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attention to the necessity of helping the scheme. Your sympathy is most essential for us.

I have also addressed letters to the ~~other~~ Members of the Planning Commission. I hope our request will receive sympathetic consideration and necessary help to finance the scheme would be forthcoming from the Centre.

Yours

Sd/-

(S Nijalingappa)

Shri Morarji R Desai,
Member, Planning Commission,
NEW DELHI.

KGC

VS 4/523.33/8

29th Nov.

My Dear T. Krishnamachari,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health Dr. Sushila Nayar, about the necessity of accepting the schem for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attention to the necessity of helping the scheme.

I have also addressed letter to the other Members of the Planning Commission and to the Finance Minister. I hope our request will receive sympathetic consideration and necessary help to finance the scheme would be forthcoming from the Centre.

Yours sincerely

Sd/-

(S.Nijalingappa)

Shri T.T.Krishnamachari,
Member, Planning Commission,
New Delhi.

VS 4523.33/E

29th Nov. 2

My Dear Nandaji,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr. Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attention to the necessity of helping the scheme.

I have also addressed letter to the other Members of the Planning Commission and to the Finance Minister. I hope our request will receive sympathetic consideration and necessary help to finance the scheme would be forthcoming from the Centre.

Yours Sincerely

Sd.

(S.Nijalingappa)

Shri G.L.Nanda,
Deputy Chairman,
Planning Commission,
New Delhi.

OT.

29th Nov. 2

My Dear Pattabhi Raman,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr. Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attention to the necessity of helping the scheme.

I have also addressed letter to the ~~other~~ Members of the Planning Commission and to the Finance Minister. I hope our request will receive sympathetic consideration and necessary help to finance the scheme would be forthcoming from the Centre.

Yours Sincerely

Sd/-

(S.Nijalingappa)

Shri C.R.Pattabhi Raman,
Deputy Minister for Planning,
Government of India,
New Delhi.

OT.

VJ 4,523.33 /E

Novr. 29, 2.

My dear Srimanji,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr. Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attention to the necessity of helping the scheme.

I have also addressed letters to the other Members of the Planning Commission and to the Finance Minister. I hope our request will receive sympathetic consideration and necessary help to finance the scheme would be forthcoming from the Centre.

Yours sincerely,

Sd

(S Nijalingappa)

Shri Sriman Narayan,
Member, Planning Commission,
NEW DELHI.

KGC

VS 4523.33 E 29

Novr. 29, 2.

My dear Sri Trivedji,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr. Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attentio to the necessity of helping the scheme.

I have also addressed letters to the other Members of the Planning Commission and to the Finance Minister. I hope our request will receive sympathetic consideration an necessary help to finance the scheme would be forthcoming from the Centre.

Yours

Sd/-

(S Nijalingappa)

Shri C M Trivedi,
Member, Planning Commissio
NEW DELHI.

NGC

VS 41543-33 (E

Novr. 29,

My dear Krishna Menon,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr.Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attention to the necessity of helping the scheme.

I have also addressed letters to the other Members of the Planning Commission and to the Finance Minister. I hope our request will receive sympathetic consideration and necessary help to finance the scheme would be forthcoming from the Centre.

Yours

(S Nijalingappa)

Shri V K Krishna Menon,
Member, Planning Commission,
N E W D E L H I.

KGC

31

VJ 4,523.33 E

Novr. 29, 2.

My dear Prof. Mahalanobis,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr. Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I may tell you that it is very important specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attention to the necessity of helping the scheme.

I have also addressed letters to the other Members of the Planning Commission and to the Finance Minister. I hope our request will receive sympathetic consideration and necessary help to finance the scheme would be forthcoming from the Centre.

Yours sincerely,

Sd.

(S Nijalingappa)

Prof. P C Mahalanobis F R S
Member, Planning Commission,
N E W D E L H I .

K G C

VS 4523.33 E 32

Novr. 29, 2.

My Dear Singh,

I am enclosing for your kind reference and consideration copy of the letter I have addressed to the Minister of Health, Dr. Sushila Nayar, about the necessity of accepting the scheme for supply of water to Bangalore Corporation. I have also told you how important it is specially now when some Central industries may have to be expanded. As you know, very vital industries like, Hindustan Aircraft, Bharat Electronics, Telephones and Machine Tools apart from other private-owned and State Aided industries are centred in Bangalore City. Substantial part of the population of Bangalore are the workers in these factories. We are supplying water to these industries in spite of the fact that it has affected considerably the water supply to the other citizens of Bangalore. It is therefore very essential that the Centre should come to our help in backing up this scheme. I wish the Planning Commission also will kindly give due attention to the necessity of helping the scheme.

I have also addressed letter to the other Members of the Planning Commission and to the Finance Minister. I hope our request will receive sympathetic consideration and necessary help to finance the scheme would be forthcoming from the Centre.

Yours Sag.

(S Nijalingappa)

Shri Tribhuan Narayan Singh,
~~Shri Morarji R Desai~~
Member, Planning Commission,
NEW DELHI.

KGC

33

D.O.No.7-Secy/1963

SECRETARY
MINISTRY OF HEALTH
INDIA
New Delhi
31st December, 1962

My dear Shankara Rao,

With reference to your letter dated the 4th June, 1962 and the subsequent correspondence, I enclose herewith for your interim information only a copy of a letter I have written to the Member of the Planning Commission concerned with health matters. This is purely to indicate that the matter is still under discussion and we would be writing to you as soon as practicable about the matter again.

Yours sincerely,

Sd/- R.K. Ramadhyani

Enc:-

Shri M.S. Shankara Rao,
Secretary, Public Health,
Labour & Municipal Administration Deptt.,
Government of Mysore,
Bangalore.

16/1/63

" C O P Y "

SECRETARY
MINISTRY OF HEALTH
INDIA
New Delhi
31st December, 1962

D.O.No.F.1(MYS)-5(WS)/62-F

My dear Professor Thacker,

I enclose herewith for ready reference a copy of Shri Veerendra Patil's letter to the Health Minister regarding a project for augmenting the water supply for Bangalore City. An official reference had also been received earlier and was examined by the Ministry of Health in consultation with the Planning Commission. The Planning Commission's recommendation was that it would not be possible for the Government of India to offer any Central assistance during the Third Plan period above the ceiling already fixed. It was advised that the State Government should be asked to constitute a statutory Water & Sewage Board to raise loans and levy cesses for the execution of the scheme.

I have consulted the Ministry of Finance regarding the constitution of the Statutory Board. It appears more than doubtful whether the constitution of such a Board will enable the water supply of an important city like Bangalore to be secured. In fact I understand from Dahejia that even to arrange for the raising of a loan of the order of Rs.1 crore by this Board will prove to be difficult and it could not at all be stated that the Central Government will be able to anticipate the raising of such a loan in the current year or in the coming years. Dahejia in fact agreed that the constitution of the Board is not a guarantee that it will be able to raise the loan required although he felt that they might be able to get fairly large sums from Banks and other financing institutions. It does not seem to me satisfactory to advise the State Government to set up a Statutory Body with all the processing and organisation required if ultimately we cannot even feel certain that the Board will be able to find the necessary finances. As you may see, the estimated cost of the long term project is about Rs.24 crores of which 50% is sought from the Central Government. It seems to me that since the Central Government is apt to look at the raising of loans as a general financial measure for the country as a while it would be simpler for every body if the loan could be made by the Central Government to the Bangalore Corporation or the State Government instead of asking it to obtain the loan in an indirect manner i.e. through a Board. Taking it that if the project is to be commenced in the immediate future and spread over 5 or 6 years the annual requirement would come to about 2 crores of which if the Centre at least agrees to find one crore, we could ask the State Government or the Board to find the remainder by other means. It does not appear that without assistance the State Government will be able to take up a project of this magnitude.

In this context I may note that the shortage of water for Bangalore is, to a considerable extent, due to the establishment of Central industries in Bangalore. It seems essential that the Central Government should either grant or guarantee a loan of the order of at least one crore a year for the project. It will, in any case, be necessary for the State Government to find a considerable sum out of its Plan provision and perhaps every other means to undertake the project. I should be thankful if you would kindly go into this question and arrange, if necessary, a meeting in your office at a very

early date

(PTO)

early date.

Yours sincerely,

Enc:

Sd/- R.K. Ramadhyani

Prof. M.S. Thacker,
Member,
Planning Commission,
New Delhi.

16/1/63

"Copy"

PROCEEDINGS of the Meeting held in the Chambers of the Chief Minister on 18-5-1963 at 3.30 P.M. regarding Long Range Water Supply for Bangalore.

Present:

1. The Chief Minister.
2. Minister for Public Works.
3. Professor Thacker, Member, Planning Commission.
4. Dr. Seshagiri Rao, Chief(Health), Planning Commission.
5. Chief Secretary to Government.
6. Secretary to Government, Finance Department.
7. Secretary to Government, Planning, Housing and Social Welfare Department.
8. Secretary to Government, Public Works Department.
9. Secretary to Government, R.H., Labour & Municipal Administration Department.
10. Deputy Secretary, Public Works Department (Irrigation).
11. Chief Engineer (General).
12. Sri K.V. Gundappa, Technical Assistant to the Chief Engineer(General).
13. Sri Raja Ram, Executive Engineer, Long Range Water Supply Investigation Division.
14. Commissioner, Corporation of the City of Bangalore.
15. Engineer, Corporation of the City of Bangalore.
16. Health Officer, Corporation of the City of Bangalore.
17. Dr. Radhakrishna, Executive Engineer, Water Supply Division, Bangalore.

The Member, Planning Commission, explained to the Chief Minister the substance of the detailed discussions he had with the officers of Government on the above subject at the Residency on 16-5-1963 at 3 P.M. He also showed him a draft of a note prepared for placing before the Planning Commission based on their discussions.

After the discussions it was agreed that

1) We may proceed with the Long Range Water Supply Scheme of Bangalore costing Rs.23 crores, (13 crores for bringing water from Cauvery to Bangalore, 4 crores for improving the distribution in Bangalore, and 6 crores for improving the drainage and sewage disposal systems). The foreign exchange component of this scheme would be Rs3.00 crores. The Chief Engineer (General) was asked to invite tenders. As it is likely to take about a year from the date of call of tenders for all formalities to be completed and contracts placed, it was decided that tenders may be invited immediately.

2) The State should take immediate steps for the formation of the Water and Sewage Board.

3) In the meanwhile the distribution of Water Supply and Drainage and disposal of sewage be taken over by Government from the Corporation.

4) The details of the schemes relating to distribution and drainage should be ready by August 1963.

5) The investigation of these schemes may be undertaken by the present Investigation Division for the Long Range Water Supply Scheme.

S. NIJALINGAPPA,
Chief Minister.

No.PLM 76 GGL 63. Bangalore, dated 31-5-1963.

Copy forwarded to:-

The Chief Secretary to Government;
The Secretary, Finance Department;
The Secretary, Planning, Housing & Social Welfare Department,
The Secretary, Public Works Department;
The Deputy Secretary, Public Works Department(Irrigation);
The Chief Engineer(General);
The Commissioner, Corporation of the City of Bangalore (through the Mayor);
The Private Secretary to Chief Minister;
The Private Secretary to Minister for Municipal Administration;
The Private Secretary to Minister for Public Works;
The Private Secretary to Minister for Health.

(K. Khader Mohieddin),
Under Secretary to Government,
P.H., Labour & Municipal Admn. Dept.

Juned4.

36

D.O. No: 422-Secy/63

SECRETARY,
MINISTRY OF HEALTH,
INDIA,
NEW DELHI.

1st June, 1963.

My dear Anandakrishna,

I enclose herewith an extract from a letter (No.3639 JS(EF)/63 dated 31-5-63) from the Department of Economic Affairs for your immediate attention and necessary action.

MYSORE GOVT. SECRETARIAT
No. 4551
7 JUN 1963
P.W.D. (GENERAL IRRIGATION)

Yours sincerely,

(R.K. Ramadhyani)

Shri R. Anandakrishna,
Secretary, Public Health, Labour and
Municipal Administration Deptts.,
Mysore State,
Bangalore.

MYSORE GOVERNMENT SECRETARIAT
No. 4057
6 JUN 1963
P.H. LABOUR & MUN. ADM. DEPTS. (GENERAL)

P.T.O.

I have requested on phone Sri W.V. Gundappa, TA to-cetcy to send us four copies of the Canning Scheme details. He said he would be sending them by tomorrow

6/6

I again reminded Sri Venkataramu, JE and Sri W. Gundappa, TA to-cetcy. They have promised to send them on Monday the 10th inst.

7/6

Extract from D.O. letter No.3639 JS(EF)/63 dated 31-5-63 from Shri K.S. Sundara Rajan, Joint Secy., Ministry of Finance (Deptt. of Economic Affairs), New Delhi, to Shri R.K. Ramadhyani, Health Secy.

We had, as you know, suggested the Bangalore Water Supply Scheme as one of the projects for IBRD/IDA financing during 1963-64. On the basis of preliminary indications that we have received, it seems that the Bank will be interested in considering the Bangalore Water Supply Project for IDA financing. In order to enable the Bank to process the matter further, it is necessary, at this stage, that we should provide the fullest possible details regarding the scheme including, if possible, the detailed project report etc.

2. Mr. Jefferies, a senior officer of the World Bank, is expected to be here on June 11 and will stay here for about a fortnight. It would be very useful if during his stay here, we are able to give him all the necessary information regarding the Bangalore Water Supply Scheme. I shall be grateful if you will ask the authorities in Bangalore to send us three sets of all the available material immediately and keep themselves in readiness for further detailed discussions during Mr. Jefferies' visit, if necessary.

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D.O. LETTER FOR APPROVAL

Dear Sir,

~~Please~~ Kindly refer ~~to~~ your D.O. letter No.3639 JS (EF) 63 dated 31-5-1963 addressed to Shri R.K. Ramadhyani, Secretary to the Government of India, Ministry of Health regarding the possibility of I.D.A. financing the Bangalore Water Supply Scheme.

As desired in your letter, I am enclosing herewith three copies of the Project Report furnishing the details of the scheme.

If necessary, the Chief Engineer (General) will be deputed to Delhi for further ~~detailed~~ discussions.

Yours sincerely,

10.6.63

(M.A. Subhan Khan)

Shri K.S. Sundara Rajan,
Jt. Secretary to the Govt. of India,
Ministry of Finance
(Dept. of Economic Affairs),
New Delhi.

Copy to Sri. R. Ramadhyani, IAS. Secy to Govt PLN ok for

K. B. MURARAPPA,
Deputy Secretary to Govt., PWD (Irrgn.).

39

D.O. LETTER FOR APPROVAL

Dear Sir,

~~Please~~ Kindly refer ~~to~~ your D.O. letter No.422-Secy.-63 dated 1-6-1963 addressed to Shri R. Anandakrishna, Secretary to the Government of Mysore, Public Health, Labour and Municipal Administration Department regarding Bangalore Water Supply Scheme.

I have forwarded three copies of the Project Report~~s~~ to Shri K.S. Sundara Rajan, Joint Secretary to the Government of India, Ministry of Finance (Dept. of Economic Affairs) as desired by you.

~~I hope you will be able to secure financial assistance from I.D.A. for the Bangalore Water Supply Scheme.~~

Express

Issued in No. PWD 141 GTW 62 cm 3 Books.
Dated. 10-6-63

Yours sincerely,

10.6.63

(M.A. Subhan Khan)

Shri R.K. Ramadhyani,
Secretary to the Government of India,
Ministry of Health,
New Delhi.

Copy to Sri R. Anandakrishna, Secy to Govt for ...

K B. MURARAPPA,
Deputy Secretary Govt., PWD (...

40

M.A.Subhan Khan, BA,BE,MIE,
JT. xxxx

xxxxxxxx

10-6-63

PWD 141 GTW 62

Dear Sir,

Kindly refer your D.O. letter No.3639 JS (EF) 63 dated 31-5-1963 addressed to Shri R.K. Ramadhyani, Secretary to the Government of India, Ministry of Health regarding the possibility of I.D.A. financing the Bangalore Water Supply Scheme.

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If necessary, the Chief Engineer (General) will be deputed to Delhi for further discussions.

Yours sincerely,

Sd/-

Shri K.S. Sundara Rajan,
Joint Secretary to the Government of India,
Ministry of Finance,
(Department of Economic Affairs),
New Delhi.

Copy to Sri R. Anandakrishna, I.A.S., Secretary to Government, P.L.M. Dept. for information.

(K.B. Murarappa)
Dy. Secretary to Government, PWD(I)

41

M.A. Subhan Khan, BA, BE, MIE,
JT.xxxxx

xxxxxxxxx

10-6-63

PWD 141 GTW 62

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Yours sincerely,

Sd/-

Shri R.K. Ramadhyani,
Secretary to the Government of India,
Ministry of Health,
New Delhi.

Copy to Shri R. Anandakrishna, I.A.S., Secretary to the Government, P.L.M. Dept. for information.

(K.B. Murarappa)
Dy. Secretary to Govt. PWD(I)

Hold. 20.6.63

CAUVERY WATER FOR BANGALORE

WORLD BANK TEAM TO STUDY

RS. 25-CRORE PLAN TO BE SCRUTINISED

(FROM OUR CORRESPONDENT)

BANGALORE, June 19.

A technical team of the World Bank is expected to visit Bangalore early in July to scrutinise the Rs. 25 crore integrated Bangalore water supply project for which the Mysore Government have sought the Bank's assistance.

Meanwhile, in view of the capital cost and the magnitude of the project, global tenders are being invited for several aspects of the work. The project is designed to yield 60 million gallons a day to the State Capital, which has a population of one and a half million.

The choice of the Cauvery project from among a number of alternative projects followed a long-drawn effort by the Municipal Corporation of the city which commended it as the only long-term solution. The State Government appointed an investigation committee to decide the relative merits of the three alternative projects. The investigation commended the Cauvery scheme which was approved by the Government a few months ago. Since then, the Government has been preoccupied with finding the resources necessary to execute it.

40 GALLONS PER HEAD PROPOSED

The project, when completed, would come as a boon to the residents of Bangalore who would, however, have to pay more for the benefit of assured water supply which is expected to be 40 gallons a day per head.

Technical and other data connected with the project are now available from a document prepared by Mr. H. K. Rajaram, Executive Engineer of the State P.W.D.

PRESENT SUPPLY INADEQUATE

Bangalore has been suffering from acute scarcity of water supply for a long time now. At present the city is receiving about 18 million gallons a day from the Thippagondanahalli and the Hasarghatta reservoirs. This works out to a rate of 12½ gallons per head per day, including industrial requirements. This is considered very inadequate for a metropolitan city like Bangalore. An additional supply of 10.8 mgd is envisaged under the triplicate main scheme for Thippagondanahally by April 1964, when the per capita supply will rise to about 20 galions, including industrial and other requirements. This also is considered very inadequate in view of the growing demand for industrial and other consumption. Substantial augmentation of the system has assumed urgent importance not only for the needs of the local population but also for several key and strategic industries being set up in the city.

NEED FOR NEW SOURCE

The minimum requirement of water for a metropolitan city like Bangalore is estimated at 40 gallons per head a day, excluding industrial requirements. The requirement of water by 1971 on this basis will be 80 million gallons a day while the industrial requirement will be 10 mgd. The total requirement of water by 1971 will be 90 mgd, and the available supply from the existing source will be 30 mgd. Hence the need to find a new source to provide at least 60 mgd by 1971.

Bangalore's location is such that no satisfactory scheme for water supply is possible without building a reservoir at a great distance from the city involving the use of pumps and other equipments of unusual sizes. The Cauvery was found to be the only source which could be depended upon after a consideration of the relevent factors involved.

SIX MILES PIPE LINE

The river water will be conveyed by a 75 inches diameter prestressed concrete pipe over six miles from a balancing reservoir to the purification works to be located near Thorekadanahalli on the banks of the Shimsha. At the treatment works a laboratory is proposed to be established for physical, chemical and bacteriological examination of the treated water. The pure water is pumped from the treatment works along Kanakapura-Bangalore Road to Bangalore City

The total lift from the treatment works at Thorekadanahalli to the control station proposed to be located on the outskirts of Bangalore, from where water is proposed to be pumped to the distribution system is 1,210 ft. This lift is negotiated in 4 stages of pumping.

At each of the four pumping stations a 2 million gallon capacity tank has been provided.

The Cauvery scheme will bring in an additional supply from the south end of the city against a supply of 30 mgd now available from the north end of the city. It is considered very necessary to completely overhaul the distribution system for the increased supply.

As per detailed plans and estimates prepared the total cost of the scheme upto the controlling station (inclusive of the pumping equipment at the control station) is Rs. 13.00 crores. The overall cost of water per thousand gallons will be Re. 0.86

CONTROL STATION

The control station is proposed to be situated at Doddakallasandra. Water is to be pumped from this station to storage reservoirs proposed to be built at the Deputy Commissioner's office compound, Mount Joy, Chamarajpet, M. N. K. Rao Park, Trinity Church and Byrasandra, Clive Lines and the Aero-Engine factory. A total storage of 30 mg equivalent to 12 hours supply from the Cauvery has been provided at these reservoirs to ensure proper distribution of water to the citizens. The total cost of these reservoirs, the pumping mains from the control station to the distribution reservoirs and improvements to the internal distribution system is expected to be Rs. 4.00 crore according to rough estimates. Details for this scheme are being worked out.

A well designed sewerage system to Bangalore is a necessity to ensure proper disposal of the increased quantity of sewage after the implementation of the water supply scheme. Re-organisation of the entire sewerage system of the city together with the proper disposal has therefore become urgent and essential from the point of view of sanitation. On a rough basis the cost of providing the city with good a sewerage system and an upto date plant to treat the sewage is estimated at Rs. 6.00 crores

The main Cauvery scheme consisting of bringing water upto the control station, it is estimated, could be completed within a maximum period of 4 years from the date of starting the work. It is necessary that the improvements to the distribution system are also completed simultaneously, while the drainage scheme could be so phased as to cover the areas as and when they develop.

495588

SECRETARY TO GOVERNMENT
No .....
20 JUN 1963
T1677
PUBLIC WORKS & ELEC. DEPT.

Secy., P.W.)
Jt. Director of Publicity & Inform

Shri G
M L G

Department of Publicity & Information
Government of Mysore.

Bangalore,
9th March, 1962.

NEWS ITEM

FREE EXAMINATION OF EYES IN SHIMOGA AND KARWAR DISTRICTS.

Padmasri Dr. M.C. Modi will examine eyes at the following places in Shimoga and Karwar Districts from 21st March to 23rd March, 1962. Other details have been given against the name of each town.

Town	Place of Eye Examination	Date	Day	Time
Honnali	Travellers Bungalow	21-3-1962	Wednesday	10-00 A.M.
Shikarpur	-do-	-do-	-do-	12-00 Noon.
Sorab	-do-	-do-	-do-	5-00 P.M.
Siddapur	-do-	22-3-1962	Thursday	10-00 A.M.
Sirsi	-do-	-do-	-do-	12-00 Noon.
Kumta	-do-	-do-	-do-	5-00 P.M.
Gokarn	-do-	23-3-1962	Friday	10-00 A.M.
Ankola	-do-	-do-	-do-	12-00 Noon.
Karwar	-do-	-do-	-do-	5-00 P.M.

The examination of eyes consists of advice on medical and surgical treatment and supply of medicine free of charge to all patients. Such of the patients as are found suitable for operation will be asked to attend the operation camp. All the patients are requested to queue up in time at the place of examination.

N. No.515/9-3-1962.

AWV:

Sub: ——— for Circulating of the Meeting held in the Chambers of the Chief Minister on 18.5.63 at 3-30 PM regarding Langanur water supply for Bose.

PW 141 GTW62 of
Ref: Cont proceedings No PLM 76 GGL63 of 31.5.63

141 STW62
4.7.63

To
The CE (G) Bangalore.

Sir I am directed to invite reference to item No 4 of the proceedings of the meeting held on 18.5.63 and to request you to intimate the progress made in the working of the details of the schemes relating to supply distribution and drainage schemes. These reports should be got ready very early as Prof Thacker comes to Bangalore shortly for discussion.

[P.T.O.]

This may be treated as top priority by all ~~Position may be~~ steps may be taken to complete the details as early as possible ~~initiate early~~ at most ready by August 63.

Yours sincerely

D. S. to Govt.

P W D Irrigation

28/6/63

Sub: ——— Proceedings of the Meeting held in the Chambers of the Chief Minister on 18.5.63 at 3-30 PM regarding Long range water supply of Bose.

PWD 141 GTW62 of
Ref: Govt proceedings No PLM 76 GGL63 of 31.5.63

141 GTW62
4.7.63

To
The C.E (G) Bangalore.

Sir I am directed to invite reference to item No 4 of the Govt proceedings of the meeting & copy sent along

I am directed to request you to furnish the progress made in ~~worked out with~~ regard to the working of the details of ~~the~~ ~~Schemes relating to~~ Supply distribution and drainage schemes these reports should be got ready very early as Prof Thacker comes to Bangalore shortly for discussion.

[P.T.O.]

GOVERNMENT OF MYSORE

No.PWD 141 GTW 62.

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 9 -7- 1963.

FROM

The *Secretary to the Government of Mysore,*
Public Works Department.

To

The Chief Engineer(General),
Bangalore.

Sir,

Sub:-Proceedings of the Meeting held in the Chambers of the Chief Minister on 18-5-63 at 3-30 P.M. regarding Long Range Water supply for Bangalore.

Ref:-Government proceedings No.PLM 76 GGL 63,dt:31-5-63.

I am directed to invite reference to item No.4 of the Proceedings of the meeting copy sent to you already and to request you to intimate the progress made in regard to the working of the details of ~~xxhxxxx~~ distribution and drainage schemes. These reports should be got ready very early, as Prof. Thecker comes to Bangalore shortly for discussion.

Yours faithfully,

(K.B.Murarappa)
Deputy Secretary to Government,
Public Works Department(Irrigation).

CA*

PROCEEDINGS OF THE GOVERNMENT OF MYSORE

Sub: Long Range Water Supply Scheme to Bangalore and its continuance - Sanctions.

MYSORE GOVT. SECRETARIAT No. 52 3750 5 P.W.D. (GENERAL IRRIGATION)

Ref: 1) G.O.NO.PWD 23 SCO 63, dated 2.2.1963.

2) G.O.NO.PWD 76 SCE 63, dated 14.5.1963

3) Letter No.IPH/CTE/LRDWS/63-64, dated 27.5.1963 from the Chief Engineer(General), Bangalore.

PREAMBLE:

In G.O.NO.PWD 23 SCO 63 dated 2nd February 1963 sanctioning the creation of cauvery Hydel Project Investigation Division, it was ordered that the Long Range Water Supply Division, Bangalore be simultaneously abolished. The three Sub-divisions under the Long Range Water Supply Division were transferred to the Control of the Investigation Division for Rural Water Supply Scheme, Bangalore and continued upto the end of May 1963 in the Govt.Order dated 14.5.1963 cited above.

The Chief Engineer(General), has in his letter dated 27.5.63 reported that the Long Range Water Supply Scheme to Bangalore City has to be taken up for immediate execution, that the detailed working Drawings Land Acquisition records and the draft tender papers for the scheme have been prepared and kept ready by the three Sub-divisions of the defunct Long Range Water Supply Division and that necessary tender Notification for the manufacture, supply laying of 72" pre-stressed concrete pipe line for Bangalore Water Supply Scheme is about to be issued. He has stated further that detailed schemes for distribution system and also the Drainage Scheme for Bangalore have to be prepared. In view of the above he has stated that for the speedy disposal of all works connected with the Long Range Water Supply referred to above, it is very necessary to have a separate Division with three sub-divisions under it and that the Rural Water Supply Investigation Dn. which is now looking after this work is entrusted with a large number of works spread over the entire State and that as such it will not be able to attend to the important works of Bangalore City Water Supply Scheme estimated to cost about Rs. 13 crores.

In the above circumstances, the Chief Engineer(General), Bangalore has recommended sanction of Government for the revival of one Division, with three Sub-Divisions thereunder for a period of 5 years in the first instance. In pursuance

of his recommendation, he has requested that the existing three Sub-Divisions of the Long Range Water Supply, Bangalore may be continued beyond 31.5.1963 now under the Rural Water Supply Investigation Division till the formation of the new Division proposed to be revived and for their continuance along with the new Division to be revived for a period of 5 years from the date of its revival.

ORDER NO.PWD 76 SCE 63,BANGALORE, DATED 27th June 1963
Ashada, 6th 1885

After due consideration of the circumstances reported by the Chief Engineer(GL) sanction is accorded (1) to the revival with immediate effect of one Division(Long Range Water Supply Dn.) which was wound up earlier, and also to the continuance of the 3 Sub-Divisions, beyond 31.5.63 for a further period of 5 years or till the work is completed whichever is earlier.

The staff of the Division to be revived shall be the same as that of the Division(Long Range Water Supply) which was wound up earlier.

The expenditure on the establishement shall be met as hither to from the provision under "94 Capital Outlay on Improvement of P.H. - 9 - Long Range Water Supply Dn.) Investigation".

By Order and in the name of the
Governor of Mysore,

27/6/63

(S.Murighendraswamy)
Under Secretary to Government,
Public Works Department.

To

The Chief Engineer(GL), Bangalore.
The Chief Engineer(C & B), Bangalore.
The Accountant General, Bangalore through F.D.
The Commissioner, Corporation of the City of Bangalore.
The Private Secretary to the Chief Minister.
The Private Secretary to the Minister for P.W.D.
The Private Secretary to the Minister for Municipal Admn.
The Private Secretary to Minister for Health.

Copies to:

The Finance Department (Works)
The General Irrigation Section,P.W.D.
The Public Health, Labour & Municipal DAdmn.Dept.(Corporation).

Weekly Gazette.

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PROCEEDINGS OF THE GOVERNMENT OF MYSORE

Sub: Long Range Water Supply Scheme to Bangalore and its continuance - Sanctions.

Ref: 1) G.O.NO.PWD 23 SCO 63, dated 2.2.1963.

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The Chief Engineer(General), has in his letter dated 27.5.63 reported that the Long Range Water Supply Scheme to Bangalore City has to be taken up for immediate execution, that the detailed working Drawings Land Acquisition records and the draft tender papers for the scheme have been prepared and kept ready by the three Sub-divisions of the defunct Long Range Water Supply Division and that necessary tender Notification for the manufacture, supply laying of 72" pre-stressed concrete pipe line for Bangalore Water Supply Scheme is about to be issued. He has stated further that detailed schemes for distribution system and also the Drainage Scheme for Bangalore have to be prepared. In view of the above he has stated that for the speedy disposal of all works connected with the Long Range Water Supply referred to above, it is very necessary to have a separate Division with three sub-divisions under it and that the Rural Water Supply Investigation Dn. which is now looking after this work is entrusted with a large number of works spread over the entire State and that as such it will not be able to attend to the important works of Bangalore City Water Supply Scheme estimated to cost about Rs. 13 crores.

In the above circumstances, the Chief Engineer(General), Bangalore has recommended sanction of Government for the revival of one Division, with three Sub-Divisions thereunder for a period of 5 years in the first instance. In pursuance

PROCEEDINGS OF THE GOVERNMENT OF MYSORE

Sub: Long Range Water Supply Scheme to Bangalore and its continuance - Sanctions.

MYSORE GOVT. SECRETARIAT No. 52.57.59 P.W.D. (GENERAL IRRIGATION)

Ref: 1) G.O.NO.PWD 23 SCO 63, dated 2.2.1963.

2) G.O.NO.PWD 76 SCE 63, dated 14.5.1963

3) Letter No.IPH/CTE/LRDWS/63-64, dated 27.5.1963 from the Chief Engineer(General), Bangalore.

PREAMBLE:

In G.O.NO.PWD 23 SCO 63 dated 2nd February 1963 sanctioning the creation of cauvery Hydel Project Investigation Division, it was ordered that the Long Range Water Supply Division, Bangalore be simultaneously abolished. The three Sub-divisions under the Long Range Water Supply Division were transferred to the Control of the Investigation Division for Rural Water Supply Scheme, Bangalore and continued upto the end of May 1963 in the Govt.Order dated 14.5.1963 cited above.

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(m II 3445-53/63 46

No.

OFFICE OF THE CHIEF MINISTER

NOTE

Dated July 2, 1963.

SECRETARIAT
4 JUL 1963
415

Prof.Thacker, Member, Planning Commission, will meet the Chief Minister for a discussion regarding Bangalore Water Supply at 9.00 A.M. on Saturday the 6th July 1963 in the Chambers of the Chief Minister at Vidhana Soudha. Chief Minister desires that the following be so good as to participate in the discussions:

G 1050
SECRETARY TO GOVERNMENT
No. Read at 4.45 P.M
5 JUL 1963
PUBLIC WORKS & ELEC. DEPT.

1. Minister for P.W.D.
2. Minister for Health.
3. Minister for Finance.
4. Minister for Municipal Administration.
5. Mayor, Bangalore City Corporation.
6. Commissioner, Bangalore City Corporation.
7. Secretary, P.W.D.
8. Secretary, Health & Municipal Admn.
9. Secretary, Finance.
10. Chief Engineer (General) (Shri K.M.Joshi)

MYSORE GOVT. SECRETARIAT
No. 54097
9 JUL 1963
P.W.D. (GENERAL IRRIGATION)

(P.Padmanabha)
Private Secretary.

P.S. Minister for P.W.D.
P.S. " for Health.
P.S. " for Finance.
P.S. " for Municipal Administration.
The Mayor, Bangalore City Corporation.
The Commissioner, Bangaore City Corporation.
The Secretary, P.W.D.
" Health & Ml.Admn.
" Finance.
The Chief Engineer (General) (Shri K.M.Joshi).

LC

of his recommendation, he has requested that the existing three Sub-Divisions of the Long Range Water Supply, Bangalore may be continued beyond 31.5.1963 now under the Rural Water Supply Investigation Division till the formation of the new Division proposed to be revived and for their continuance along with the new Division to be revived for a period of 5 years from the date of its revival.

ORDER NO.PWD 76 SCE 63,BANGALORE, DATED 27th June 1963
Ashada, 6th 1885

After due consideration of the circumstances reported by the Chief Engineer(GL) sanction is accorded (1) to the revival with immediate effect of one Division(Long Range Water Supply Dn which was wound up earlier, and also to the continuance of the 3 Sub-Divisions, beyond 31.5.63 for a further period of 5 years or till the work is completed whichever is earlier.

The staff of the Division to be revived shall be the same as that of the Division(Long Range Water Supply) which was wound up earlier.

The expenditure on the establishement shall be met as hither to from the provision under "94 Capital Outlay on Improvement of P.H. - 9 - Long Range Water Supply Dn.) Investigation".

By Order and in the name of the
Governor of Mysore,

27/6/63

(S.Murighendraswamy)
Under Secretary to Government,
Public Works Department.

To

The Chief Engineer(GL), Bangalore.
The Chief Engineer(C & B), Bangalore.
The Accountant General, Bangalore through F.D.
The Commissioner, Corporation of the City of Bangalore.
The Private Secretary to the Chief Minister.
The Private Secretary to the Minister for P.W.D.
The Private Secretary to the Minister for Municipal Admn.
The Private Secretary to Minister for Health.

Copies to:

The Finance Department (Works)
The General Irrigation Section,P.W.D.
The Public Health, Labour & Municipal DAdmn.Dept.(Corporation

Weekly Gazette.

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PROCEEDINGS OF THE GOVERNMENT OF MYSORE

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(45)

of his recommendation, he has requested that the existing three Sub-Divisions of the Long Range Water Supply, Bangalore may be continued beyond 31.5.1963 now under the Rural Water Supply Investigation Division till the formation of the new Division proposed to be revived and for their continuance along with the new Division to be revived for a period of 5 years from the date of its revival.

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By Order and in the name of the
Governor of Mysore,

27/6/63

(S.Murighendraswamy)
Under Secretary to Government,
Public Works Department.

To

The Chief Engineer(GL), Bangalore.
The Chief Engineer(C & B), Bangalore.
The Accountant General, Bangalore through F.D.
The Commissioner, Corporation of the City of Bangalore.
The Private Secretary to the Chief Minister.
The Private Secretary to the Minister for P.W.D.
The Private Secretary to the Minister for Municipal Admn.
The Private Secretary to Minister for Health.

Copies to:

The Finance Department (Works)
The General Irrigation Section,P.W.D.
The Public Health, Labour & Municipal DAdmn.Dept.(Corporation)

Weekly Gazette.

hns

Action taken so far by the P.W.D. with regard to the Cauvery Scheme --

1) The Long Range Water Supply Division has been revived and has been given sanction for a period of five years. This Division will take up the investigation, preparation of plans and estimates in respect of--

a) improvement to distribution system in Bangalore city;

b) underground drianage system to Bangalore, in addition to attending to other preliminary works connected with the Cauvery scheme.

2) Proposals have been received from the Chief Engineer with regard to calling for tenders for the pipe-line work. This is being examined. He has forwarded a draft tender notification recently which is unde examination. ~~in consultation with the Finance Department.~~

3) Survey work for the land required for laying the pipe line has been completed and the connec ed records are expected shortly from the Chief Engineer (General) for initiating land acquisition proceedings.

4) With regard to taking over the distributio system from the Corporation to Government, the Com missioner, Corporation of the city of Bangalore ha been addressed to get a resolution to that effect by the Corporation Council and forward the same to Government. After its receipt, necessary orders in this behalf will be issued.

5) The question of having Water Supply and

Sanitation Board is under consideration in the P.L.M. Department.

D r a f t

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Sir,

I am directed to state that a meeting will be convened in the chambers of the Minister for PW on Wednesday the 10th July 1963 at 4.00 P.M. to discuss the following subjects:-

1) Steps to be taken to expedite investigation and preparation of detailed estimates and plans, with regard to improvements to the distribution system to Bangalore and also the Underground Drainage System to Bangalore;

2) The staff required for the above purposes so that the investigation and preparation of estimates and plans are ready within a period of three months;

3) The desirability of having a Control Board to advise Government in the implementation of the Cauvery Scheme;

4) The tender notification proposed to be issue for the pipe-line work, in respect of the Cauvery Scheme;

5) Any other subject.

You are requested to kindly attend the meeting.

Yours faithfully,

D.S., P.W.D. (I).

For general information

Issue today

Is used in No. - T 141 GTW62
Executive 9-7-63

**(1) The Secy. PW&E (2) Secy. PLM
(3) The Secy. F.D.
(4) The C.E.(G)
(5) The C.S.D., PW Sectt.
(6) The E.E., Spl. Water Supply Dn.
(7) The E.E., Long Range Water Supply Dn.
(8) PS. to PW

50

GOVERNMENT OF MYSORE

No PWD 141 STW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, JULY 9, 1963

FROM

The Secretary to the Government of Mysore,
Public Works Department.

To:
1) The Secretary to Government, Public Works & Elecl. Dept.
2) The Secretary to Government, P.L.N.Admn. Department.
3) The Secretary to Government, Finance Department.
4) The Chief Engineer (General), P.W.D., Bangalore.
5) The C.S.D., Public Works Sectt.
6) The Executive Engineer, Special Water Supply Division, Bangalore.
7) The Executive Engineer, Long Range Water Supply Division, B'lore.

Sir,

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2) The staff required for the above purpose so that the investigation and preparation of estimates and plans are ready within a period of three months;

3) The desirability of having a Control Board to advise Government, in the implementation of the Cauvery Scheme;

4) The tender notification proposed to be issued for the pipeline work, in respect of the Cauvery Scheme;

5) Any other subject.

You are requested to kindly attend the meeting.

Yours faithfully,
Sd/-
(K.B. Murarappa)
Deputy Secretary to Government,
Public Works Department (Irrigation)

BRP/10)
9-7-63)

(P.T.O.)

51

Copy to the Private Secretary to the Minister for Public Wor
for information.

9.7.63

(K.B. Murarappa)
Dy. Secretary to Govt. P.W.D.(Irrgn.)

9/7/63

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, JULY 9, ... 1963.

FROM

The *Secretary to the Government of Mysore,*
Public Works Department.

To

1) The Secretary to Government, Public Works & Elecl. Dept.
2) The Secretary to Government, P.L.M.Adm. Department.
3) The Secretary to Government, Finance Department.
4) The Chief Engineer (General), PWD, Bangalore.
5) The O.S.D., Public Works Sectt.
6) The Executive Engineer, Special Water Supply Division, Bangalore.
7) The Executive Engineer, Long Range Water Supply Division, B'lore.

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(K.B. Murarappa)
Deputy Secretary to Government,
Public Works Department (Irrigation)

BRP/10)
9-7-63)

(P.T.O.)

Copy to the Private Secretary to the Minister for Public Work for information.

(K.B. Murarappa)
Dy. Secretary to Govt. P.W.D.(Irrgn.)

9/7/63

HLH

D.O. No. 1/6(8)/60

PLANNING COMMISSION
NEW DELHI

August 8, 1963

For necessary action
urgently. May I have a
draft for replying to
Dr. Seshagiri Rao?
13/8

Seen (PWD)

Dear Shri Balachandran,

I am enclosing herewith a copy of the note prepared by the Health Division on Bangalore Water Supply after the visit of Member(E) to Bangalore from 1st to the 6th of July, 1963 and his discussions with the State Government officers and the Chief Minister. I am desired to draw your kind attention to the following points contained in the note for necessary action.

Page 1 - Para 3: It is stated that the Advocate General concurred with the opinion of the Law Ministry in that the State Government was not competent to constitute a Water and Sewage Board and that the Government would be making a reference to the Centre to have a Central legislation enacted enabling the State Government to constitute such a Board and that in the meantime a Control Board with the Chief Minister and some other Ministers would be constituted which ultimately could be converted into the Water and Sewage Board. The Planning Commission would be glad to know whether any reference has been made to the Central Government in regard to the enactment referred to above. The State Government may kindly take early action to constitute the Control Board as envisaged in the note.

Page 2: 1) The Member(E) advised that a comparative estimates of technical advantages of possible sources should be prepared to justify that the Cauveri project is sound technically and economically. I am sure that action has already been taken by the State Government to have this matter looked into and details are ready.

2) Under organisation, a suggestion has been made that a committee of experts composed of certain persons be constituted to scrutinise this scheme from the technical point of view. It is requested that the Mysore Government would take early action to constitute this committee. I may also state that Member(E) would be very happy to attend the meeting of this Expert Committee when it meets.

3) Another suggestion has been made to constitute a technical committee to review the progress of the work periodically and to find ways and means of overcoming any impediments in the way of progress. It is hoped that the Government of Mysore would take immediate action in constituting this committee.

Page 4: The Chief Minister stated that it would not be difficult to get the scheme cleared through the Madras Government.

U Desai
[As regards clearance from Madras Govt, OSD may be consulted]
13/8

MYSORE SECRETARIAT
No. 6423
14 AUG 1963
P.W.D. (GENERAL IRRIGATION)
CHIEF SECRETARY, GOVERNMENT OF MYSORE
No. 3503
13 AUG 1963
SECRETARIAT TO GOVERNMENT
No. 20536
1963
PUBLIC

I hope action has already been taken to address the Madras Government in the matter.

It will be appreciated if a line in reply is sent as to the action taken on the suggestions made in the note.

With kind regards

Yours sincerely,

S. Seshagiri Rau

(S. Seshagiri Rao) 2/8/63

Shri K. Balachandran, ICS,
Chief Secretary,
Government of Mysore,
Bangalore

PLANNING COMMISSION
(Health Division)

Bangalore Water Supply Scheme

Member(Education) during his visit to Bangalore from 1st to the 6th of July, 1963, took the opportunity of reviewing the progress of the estimates prepared by the Mysore Government in regard to water supply, distribution and drainage systems of Bangalore. Mr. S. Rajagopalan, D.D.G.(PHE) of the Ministry of Health was also present and he went into the details of the water supply scheme and made certain useful suggestions.

2. The Corporation did not possess a plan of the water distribution system and a comprehensive plan of the water carriage system. The Corporation was stimulated to prepare these plans during his stay at Bangalore.

3. On 5.7.1963, the Member(E) had a preliminary meeting with the Chief Engineer to the Government of Mysore, the executive engineer in charge of the Cauvery Project, Mr. Rajagopalan of the Ministry of Health and Chief(Health) regarding the scheme. The Member was apprised of the progress achieved in so far as the preparation of estimates and plans was concerned. On an enquiry by Member whether the economics of the scheme have been worked out, and whether the charges on water supply would cover the cost etc., the Chief Engineer gave him to understand that it has been proposed to levy a charge of Rs. 1/- for 1000 gallons of water utilised for domestic purpose and Rs.2/- for industrial purposes and that this amount would cover the cost of the repayment of the capital investment and maintenance of the scheme. In regard to the drainage, however, a nominal percentage of the house tax was levied as cess which yields little return. The Chief Engineer also informed the Member that the Advocate General concurred with the opinion of the Law Ministry in that the State Government was not competent to constitute a Water and Sewage Board, and therefore, the Government would be making a reference to the Centre to have a Central Legislation enacted to enable the Government to constitute such a Board and that in the meantime a Control Board with the Chief Minister, some other Ministers and the Chief Engineer would be constituted which ultimately could be converted into the Water and Sewage Board. The State Government according to the instructions of the Member(E), during his last visit, had rephased the programme in such a manner as to complete the project within six years. The rephasing also did not seem to be very realistic because the Government may not be able to spend as much money as they have provided during the Third Plan period. The Member advised the Chief Engineer to see that the schemes were prepared in greater detail and with precision so that there should be no flaw in the estimates nor should there be lack of information. The Member advised, that the Government could, in the meantime, institute enquiries for the execution of the work and call for tenders.

4. The Member understood that the quality of pre-stressed concrete pipes manufactured by M/s. Hume Pipe Co. was not of a high order and as the pipes will have to stand a very high pressure, great care should be bestowed in the manufacture of the pipes.

.../-

5. The desirability of having only one station to pump water to Bangalore from Cauveri River was considered uneconomic and that it would be advantageous to have 4 stations for lifting the water by stages.

6. The Member enquired of the Chief Engineer if there were any other sources of water, which would be more economical, and technically sounder to tap water from and he was told that all possible sources had been investigated and that there was no source which would satisfy the demands of the growing needs of the city (for some decades to come) except Cauvery. The Member advised that a comparative estimate and technical advantages of all possible sources should be prepared to justify that the cauvery scheme is economically and technically sound. Further the estimates and design should be based on the requirements of population in 2001.

7. On 6.7.1963 the Member(E) had discussions with the Chief Minister and the Minister for P.W.D. The Chief Engineer was also present at the discussions. The following points were discussed.

(1) Organisation etc.

(a) As was suggested on the last occasion, it was considered advantageous to have a single organisation for the preparation of the plans and estimates and for the execution of the work.

(b) As the scheme was an important and costly one, the Member suggested that it would be better to have the scheme looked into by a committee of experts composed of the following:

(i) Mr. Modak, Consulting P.H., Bombay.

(ii) Mr. R.S. Mehtha, Director, Engineering Research Station, Nagpur.

(iii) A representative of C.W.P.C., Delhi.

(iv) A representative of the Ministry of Health.

(v) Chief Engineer, Mysore State.

and that the Member(E) would like to attend the meeting of this expert committee when it met and that early action was warranted as the water supply position was becoming very acute.

(c) The Member also suggested that a Technical Committee may be constituted, consisting of the following to review the progress of the work periodically and to find a remedy for bottlenecks that may creep in, in the speedy execution of the work.

(i) Chief of the Health Division.

(ii) A representative of the P.H.E. Organisation of the Ministry of Health.

(iii) A representative of the C.W.P.C.

(iv) Chief Engineer(General), Govt. of Mysore.

(v) Secretary to Govt.,M.L.M.&P., Govt. of Mysore.

..... 3/-

(d) The Member stated that the Division to be created for the execution of this huge scheme should have sufficiently wide powers for operation and execution of the works without the progress of the work being hampered in any way due to usual administrativ procedures.

(e) The details of the comprehensive scheme should be worked out expeditiously and sent to the Planning Commission, the Ministry of Health and the C.W.P.C. for scrutiny. The Member pointed out that the prestressed concrete pipes used ~~in Hyderabad, he understood, were not of~~ high quality and therefore the question of selection of the type of pipes to be used should be carefully gone into and ways and means found as to how best to get the proper pipes and suggested that steel pipes may be substituted for pre-stressed pipes, as was done in Calcutta, provided the relative cost was not prohibitive. If, however, the difference in cost was reasonable the higher investment on steel pipes would be justified on account of their durability and capacity to withstand much higher pressure.

8. The Member elicited from the Chief Minister that of all the schemes investigated, Cauvery scheme was the only feasible one which could statisfy the needs of the city. The Member, therefore, suggested that in a scheme of this magnitude and when the city depended mostly on this source for its water su ply, it would be desirable in case there was a break down, to have a standby pump at every stage of pumping to maintain uninterrupted water supply.

9. The Member said that the scheme as drawn up now provided for a single pipe of a large dimension; the question of having duplicate rising mains of smaller diameter may be considered in order to avoid interruption of water supply in case there was a leak which required a few hours to repair.

(2) Finance: The Member informed the Chief Minister that the Planning Commission considered the comprehensive water supply and drainage scheme of Bangalore at a meeting and were thinking of considering a loan of Rs.23 crores towards this composite scheme. The Planning Commission was also considering whether it should be outside the State's Plan ceiling the terms of payment and the manner in which repayment was to be made with least strain on the State's finances. It was, however, pointed out by Member(E) that there would be neither any grant nor any subsidy.

10. Member(E) emphasised the need to work out the water supply schemes on a self supporting basis and requested that this might be sent to Planning Commission at an early date.

(3) Foreign Exchange: The Member(E) said that since the assistance for foreign exchange component of the scheme will have to be sought from outside, scrutiny from outside will come in. Therefore, all technical and other questions raised by him should be thoroughly looked into and finalised. And we should not have any hold-up later.

(4) Project: The Member(E) said that for the perspective population of 3 million in 2001 and the Industries to be developed, 120 million gallons will have to be ultimately drawn from this source, but the present scheme had been prepared on the basis of getting 60 million gallons per day, thus the pumps and pipes

..... 4/-

have been designed for this capacity at a cost Rs. 13 crores and that the question of getting additional quantity of 60 million gallons aday could be taken up at a later stage when the need arose. He said that there would then be need for laying additional rising mains and to instal additional pumps, but that in so far as the distribution and sewerage systems were concerned, adequate and proper sized pipes would have to be laid now. This might perhaps appreicate the cost and the Planning Commission might be ~~advised~~ apprised of this.

Rephasing of Schemes: It was stated that during the current year, 1963-64 it would not be possible to incur much expenditure as a lot of preliminaries have to be gone through namely acquisition of land, preparation of detailed estimates, sanctions for the estimates, and calling for tenders and which would involve time and, therefore, the implementation of the programme may be phased in such amanner that there would be a higher percentage of spillover into the Fourth Plan.

The Sewerage System: Bangalore was fast developing on account of the strategic position it occupied. The development of the city would be accelerated in view of the fact that the water supply position was going to be improved considerably. Along with the water supply, it was necessary to take up the drainage scheme to take off water and the proper disposal of the sewage, that the sewage scheme may be designed for an ultimate population of 3 million in the year 2001 at the rate of 40 gallons per head per day. Otherwise, it would be difficult to lay additional sewers when the population increased.

Sharing of Cauveri Waters: The Member pointed out to the Chief Minister that the Mysore Gov-ernment will have to clear the Bangalore Water Supply Scheme through the Madras Government before the water is tapped from Cauveri river as the Government was bound by the old agreement in regard to the sharing of Cauveri waters. The Chief Minister stated that there should be no difficulty but he will move the matter with the Madras Government.

The Chief Minister gave instructions to the Chief Engineer in regard to technical items discussed above.

We suggested that the State Government might take up this matter with the Bangalore Corporation and clear all the points involved regarding distribution and disposal etc. And whatever action as would arise between the Corporation and Government of Mysore should be finalised before the scheme is proceeded with.

K.Khader Mohieddin, M.Sc.,
Under Secretary to Government,
P.H. Labour & Munl.Admn.Department.

Mysore Government Secretariat,
'Vidhana Soudha'
Bangalore, Dated 22nd August '63.

D.O. No.PLM 76 GGL 63.

Dear Sir,

While acknowledging receipt of your D.O. letter No.HLH/16(8)/60 Vol.11, dated 8-8-1963 to Sri Anandakrishnan, with a copy of the note on Bangalore Water Supply and the discussions of Professor Thacker with the State Government on this Scheme, I am forwarding for your information a copy of this Government's letter No.PLM 3 GCS 63 dated the 10th July 1963, addressed to the Ministry of Health, requesting that the Government of India may initiate the necessary Parliamentary Legislation to empower the State Government to constitute a Water and Sewage Board.

Action on the other points raised in the note is being taken by the State Government and further information will be sent separately.

Sri Anandakrishna is on a few days Earned Leave and is coming back on 2-9-1963.

Yours sincerely,
Sd/-

Dr.S.Seshagiri Rao,
Chief (Health)
Planning Commission
New Delhi.

Copy to the Public Works Department (with a copy of the letter under reply (with enclosures) for necessary action on the points raised in the note. It is suggested that the Secretary, Public Works Department may also be included in the Technical Committee for reviewing the progess of the project.

The PH.Labour and Munl.Admn.Deptt. may please be kept informed of the action taken on the suggestions made by the Planning Commission.

Copy to the Chief Engineer(General) for necessary action.

(K.Khader Mohieddin)
Under Secretary to Govt. PLM Deptt.

Dr.S.Seshagiri Rau,
Chief(Health).

Planning Commission,
New Delhi.
August 8,1963.

Dear Shri Anandakrishna,

I am enclosing herewith a copy of the note on Bangalore Water Supply scheme prepared after Prof.Thacker's visit to Bangalore in the month of July and his discussions with the State Government Officers and the Chief Minister. There are a number of points which require action being taken immediately by the Government of Mysore. I have addressed a letter to the Chief Secretary(Copy enclosed). I hope that early action will be taken by the State Government in regard to the several points brought out in the letter.

With regards,

Yours sincerely,
Sd/-
(S.Seshagiri Rau)

Shri Anandakrishna,
Secretary (LMPH),
Government of Mysore,
Bangalore.

/ copy /

ss.8/218/-

Dr.S.Seshagiri Rau,
Chief(Health).

August 8,1963.

Dear Shri Balachandran,

I am enclosing herewith a copy of the note prepared by the Health Divisiinn on Bangalore Water Supply after the visit of Member(E) to Bangalore from 1st to the 6th of July, 1963 and his discussions with the State Government Officers and the Chief Minister. I am desired to draw your kind attention to the following points contained in the note for necessary action.

Page 1 - Para 3: It is stated that the Advocate General concurred with the ~~opion~~ opinion of the Law Ministry in that the State Government was not competent to constitute a Water and Sewage Board and that the Government would be making a reference to the Centre to have a Central legislation enacted enabling the State Government to constitute such a Board and that in the meantime a Control Board with the Chief Minister and some other Ministers would be constituted which ultimately could be converted into the Water and Sewage Board. The Planning Commission would be glad to know whether any reference has been made to the Central Government in regard to the enactment referred to above. The State Government may kindly take early action to constitute the Control Board as envisaged in the note.

Page 2: 1) The Member(E) advised that a comparative estimates of technical advantages of possible sources should be prepared to justify that the Cauveri project is sound technically and economically. I am sure that action has already been taken by the State Government to have this matter looked into and details are ready.

2) Under organisation, a suggestion has been made that a committee of experts composed of certain persons be constituted to scrutinise this scheme from the technical point of view. It is requested that the Mysore Government would take early action to constitute this committee. I may also state that Member(E) would be very happy to attend the meeting of this Expert Committee when it meets.

3) Another suggestion has been made to constitute a technical committee to review the progress of the work perodically and to find ways and means of overcoming any impediments in the way of progress. It is hoped that the Government of Mysore would take immediate action in constituting this committee.

Page 4: The Chief Minister stated that it would not be difficult to get the scheme cleared through the Madras Government.

I hope ~~hopp~~ action has already been taken to address the Madras Government in the matter.

It will be appreciated if a line in reply is sent as to the action taken on the suggestions made in the note.

Yours Sincerely,
Sd/-
(S.Seshagiri Rau)

Shri K.Balachandran,ICS.,
Chief Secretary,
Government of Mysore,
Bangalore.

ss.5/218/-1

PLANNING COMMISSION
(Health Division)
--

Bangalore Water Supply Scheme.

Member(Education)during his visit to Bangalore from 1st to the 6th of july,1963, took the opportunity of reviewing the progress of the estimates prepared by the Mysore Government in regard to water supply, distribution and drainage systems of Bangalore.Mr.S.Rajagopalan,D.D.G.(PHE) of the Ministry of Health was also present and he went into the details of the water supply scheme and made certain useful suggestions.

The Corporation did not possess a plan of the water distribution system and a comprehensive plan of the water carriage system. The Corporation was stimulated to prepared these plans during his stay at Bangalore.

On 5.7.1963,the Member(E)had a preliminary meeting with the Chief Engineer to the Government of Mysore,the executive engineer in charge of the Cauvery Project, Mr.Rajagopalan of the Ministry of Health and Chief(Health)regarding the scheme. The member was apprised of the progress achieved in so far as the preparation of estimates and plans was concerned. On an enquiry by Member whether the economics of the scheme have been worked out, and whether the charges on water supply would cover the cost etc.,the the Chief Engineer gave him to understand that it has been proposed to levy a charge of Rs.1/- for 1000 units of water utilised© for industrial purposes and that this amount would cover the cost of the repayment of the capital investment and maintenance of the scheme. In regard to the drainage,however, a nominal percentage of the house tax was levied as cess which yields little return. The Chief Engineer also informed the Member that the Advocate General concurred with the opinion of the Law Ministry in that the State Government was not competent to constitute a Water and Sewage Board, and therefore, the Government would be making a reference to the Centre to have a Central Legislation enacted to enable the Government to constitute such a Board and that in the meantime a control Board with the Chief Minister,some other Ministers and the Chief Engineer would be constituted which ultimately could be converted into the Water and Sewage Board. The State Government according to the instructions of the Member(E) during his last visit, had rephased the programme in such a manner as to complete the project within six years. The rephasing also did not seem to be very realistic because the Government may not be able to spend as much money as they have provided during the Third Plan period. The member advised the Chief Engineer to see that the schemes were prepared in greater detail and with precision so that there should be no flaw in the estimates nor should there be lack of information. The Member advised, that the Government could, in the meantime,institute enquiries for the execution of the work and call for tenders.

The Member understood that the quality of prestressed concrete pipes manufactured by M/s. Hume Pipe Co. was not of a high order and as the pipes will have to stand a very high pressure,great care should be bestowed in the manufacture of the pipes.

The desirability of having only one station to pump water to Bangalore from Cauveri River was considered uneconomic and that it would be advantageous to have 4 stations for lifting the water by stages.

© for domestic purposes and Rs. 2/-

The Member enquired of the Chief Engineer if there were any other sources of water, which would be more economical, and technically sounder to tap water from and he was told that all possible sources had been investigated and that there was no source which would satisfy the demands of the growing needs of the city(for some decades to come) except Cauvery. The Member advised that a comparative estimate and technical advantages of all possible sources should be prepared to justify that the cauvery scheme is economically and technically sound. Further the estimates and design should be based on the requirements of population in 2001.

On 6.7.1963 the Member(E) had discussions with the Chief Minister and the Minister for P.W.D. The Chief Engineer was also present at the discussions. The following points were discussed.

(1) Organisation etc.

(a) As was suggested on the last occasion, it was considered advantageous to have a single organisation for the preparation of the plans and estimates and for the execution of the work.

(b) As the scheme was an important and costly one, the Member suggested that it would be better to have the scheme looked into by a committee of experts composed of the following:

(i) Mr.Modak, Consulting P.H., Bombay.

(ii) Mr.R.S.Mehta, Director Engineering Research Station, Nagpur.

(iii) A representative of C.W.P.C., Delhi.

(iv) A representative of the Ministry of Health.

(v) Chief Engineer, Mysore State.

and that the Member(E) would like to attend the meeting of this expert committee when it met and that early action was warranted as the water supply position was becoming very acute.

(c) The Member also suggested that a Technical Committee may be constituted, consisting of the following to review the progress of the work periodically and to find a remedy for bottlenecks that may creep in, in the speedy execution of the work.

(i) Chief of the Health Division.

(ii) A representative of the P.H.E. Organisation of the Ministry of Health.

(iii) A representative of the C.W.P.C.

(iv) Chief Engineer(General), Govt. of Mysore.

(v) Secretary to Govt., P.L.M., Govt. of Mysore.

(d) The Member stated that the Division to be created for the execution of this huge scheme should have sufficiently wide powers for operation and execution of the works without the progress of the work being hampered in any way due to usual administrative procedures.

(e) The details of the comprehensive scheme should be worked out expeditiously and sent to the Planning Commission, the Ministry of Health and the C.W.P.C. for scrutiny. The Member pointed out that the prestressed concrete pipes used in Hyderabad, he understood, were not of high quality and therefore the question of selection of the type of pipes to be used should be carefully gone into and ways and means found as to how best to get the proper pipes and suggested that steel pipes may be substituted for pre-stressed pipes, as was done in Calcutta, provided the relative cost was not prohibitive. If, however, the difference in cost was reasonable the higher investment on steel pipes would be ~~the~~ justified on account of their durability and capacity to withstand much higher pressure.

The Member elicited from the Chief Minister that of all the schemes investigated, Cauvery scheme was the only feasible one which could statisfy the needs of the City. The Member, therefore, suggested that in a scheme of this magnitude and when the city depended mostly on this source for its water supply, it would be desirable in case there was a break down, to have a standby pump at every stage of pumping to maintain uninterrupted water supply.

The Member said that the scheme as drawn up now provided for a single pipe of a large dimension; the question of having duplicate rising mains of smaller diameter may be considered in order to avoid interruption of water supply in case there was a leak which required a few hours to repair.

(2) Finance: The Member informed the Chief Minister that the Planning Commission considered the comprehensive water supply and drainage scheme of Bangalore at a meeting and were thinking of considering a loan of Rs.23 crores towards this composite scheme. The Planning Commission was also considering whether ~~it~~ it should be outside the State's Plan ceiling the terms of payment and the manner in which repayment was to be made with least strain on the State's finances. It was, however, pointed out by Member(E) that there would be neither ~~a~~ any grant nor any subsidy.

Member(E) emphasised the need to work out the water supply schemes on a self supporting basis and requested that this might be sent to Planning Commission at an early date.

(3) Foreign Exchange: The Member(E) said that since the assistance for foreign exchange component of the scheme will have to be sought from outside, ~~scrutiny from outside will have to be sought from outside~~, scrutiny from outside will come in. Therefore, all technical and other questions raised by him should be thoroughly looked into and finalised. And we should not have any hold-up later.

(4) Project: The Member(E) said that for the perspective population of 3 million in 2001 and the Industries to be developed, 120 million gallons will have to be ultimately drawn from this ~~course~~, source, but the present scheme had been prepared on the basis of getting 60 million gallons per day, thus the pumps and pipes have been designed for this capacity of a cost Rs.13 crores and that the question of getting additional quantity of 60 millions gallons a day could be taken up at a later stage when the need arose. He said that there would then be need for laying additional rising mains and to instal additional pumps, but that in so far as the distribution and sewerage systems were concerned, adequate and proper sized pipes would have to be laid now. This might perhaps appreciate the cost and the Planning Commission might be apprised of this.

Rephasing of Schemes: It was stated that during the current year, 1963-64 it would not be possible to incur much expenditure as a lot of preliminaries have to be gone through namely acquisitions of land, preparation of detailed estimates, sanctions for the estimates, and calling for tenders and which would involve time and, therefore, the implementation of the programme may be phased in such a manner that there would be a higher percentage of spillover into the Fourth Plan.

The Sewarage System: Bangalore was fast developing on account of the strategic position it occupied. The development of the City would be accelerated in view of the fact that the water supply position was going to be improved considerably. Along with the water supply, it was necessary to take up the drainage scheme to take off water and the proper disposal of the sewage. that the sewage scheme may be designed for an ultimate population of 3 million in the year 2001 at the rate of 40 gallons per head per day. Ot erwise, it would be difficult to lay additional sewers when the population increased.

Sharing of Cauveri Waters: The Member pointed out to the Chief Minister that the Mysore Government will have to clear the Bangalore Water Supply Scheme through the Madras Government before the water is tapped from Cauveri river as the Government was bound by the old agreement in regard to the sharing of Cauveri waters. The Chief Minister stated that there should be no difficulty but he will clear the matter with the Madras Government.

The Chief Minister gave instructions to the Chief Engineer in regard to technical items discussed above.

We suggested that the State Government might take up this matter with the Bangalore Corporation and clear all the points involved regarding distribution and disposal etc. And whatever action as would arise between the Corporation and Government of Mysore should be finalised before the scheme is proceeded with.

/ copy /

ss.5/218/-

K. KHADER MOHIDDIN
Under Secy., P.L.M. Dept.

Copy of letter No.PLM 3 GCS 63, ~~dated from~~ dated 10/11.7.63 from the Secretary to Government of Mysore, PH. Labour and Municipal Administration Department, Bangalore to the Secretary to the Government of India, Ministry of Health, NewDelhi.

Subject: Scheme for long range water supply to the City of Bangalore.

I invite reference to the correspondence resting with your D.O.letter No.7.Secy/1962 dated 31st December 1962 on the above subject. We understand that the Planning Commission is considering the question of making available the financial assistance necessary for the execution of the scheme. The State Government have had a number of discussions with Prof. Thacker, Member, who is in charge of Health & Education, in this matter.

Pending a decision in the matter of financial assistance, the Planning Commission suggested to us that it would be advisiable for the State Government to constitute a water & Sewage Board empowered to raise loans to implement the scheme and to collect the revenue. After careful consideration, the State Government have taken a decision in principle to set up a statutory Water and Sewage Board to take over the entire responsibility for the supply and distribution of water to the City.

As envisaged by the State Government such a Board will

a) consist of senior Engineers and Administrators with some representation to the Corporation of the City of Bangalo:

2) be given full autonomy, powers however, being reserved by Government to issue directions where the public interes demands it;

3) be empowered to borrow money from Central or the State Government as also from the public;

4) take over not only the distribution system in the City but also the head works at Thippagondanahalli and Hesseraghatta and also the rising mains;

5) execute any new works such as Cauvery Water Supply scheme;

6) make supplies direct to consumers without the intervention of the Corporation of the City of Bangalore and collect charges for water supplied on a no profit and no loss basis;

7) take over the sewerage and sewage system from the Corporation and maintain it recovering the charges in this behalf from the Corproration.

When the question of enacting the legislation necessary for setting up such a Board was examined, it was found that the Boa would amount to a "Trading Corporation as envisaged in Entry 43 of List I of ~~the~~ Schedule VII to the Constitution of India. This being a Union subject the State Government has no competen to legislate in this matter. I am therefore directed to reques that the Government of India may initiate the necessary parliamentary legislation to constitute the Board. It is suggested that the proposed legislation may be on the lines of the Electricity (Supply) Act, 1948.

/copy/

ss.2/218/-

D r a f t.

K. BALACHANDRAN, I.C.S.,
Chief Secretary to Government

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, dated August 1963.

Sub: Bangalore Water Supply Scheme.

Ref:- D.O.No.HLH/16(8)/60 dt.8.8.1963.

Dear Dr.Seshagiri Rau,

With reference to your above D.O.letter I am to inform you as under:-

1. Water and Sewage Board:

On 10-7-63 this Government have approached the Government of India, Ministry of Health for ~~legislating a Parliament Act~~ initiating the necessary Central legislation to enable formation of such Boards.

2. Control Board.

A Control Board has already been ~~appoint~~ constituted vide copy of the Government Order enclos herewith. ~~However~~ The question of including some additional members ~~like Moda~~ ~~etc.~~ is under consideration.

3. Preparation of Comparative estimates:

This is being attended to.

4. Committee of Experts to scrutinise the Scheme.

A technical sub-committee has been

he Control Board

). ~~The proposal~~

~~members like~~

~~s under conside~~

We are ~~very~~ happy to learn that Member (E), Planning Commission ~~is desirous of~~ has agreed to associate ~~ing~~ himself with the scrutiny of the technical points. He ~~would~~ will be informed of the meetings and furnished the agenda of the Technical Sub-Committee of the Control Board.

5. Technical Committee to review progres and programme.

One of the functions of the technical sub-committee ~~attached to~~ of the Control

Board would be to review progress . . . and programme - vide para 5 of the G.O.

Clearance from Madras:

The existing agreements with Madras Government are only in respect of irrigation uses. But this is a scheme for supply of water for human consumption, rights to which override all others. ~~uses~~. Therefore the question of obtaining clearance from Madras does not arise in the case of this scheme.

I would be very happy to keep you informed of ~~apprise you of~~ further developments in the matter.

With regards,

Yours sincerely,

Encl: Copy of G.O.

(K. Balachandran)

Dr. S. SESHAGIRI RAU,
Chief (Health)
Planning Commission,
NEW DELHI.

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

(Public Works Department).

Sub: Constitution, Powers and Functions of the Bangalore Water Supply and Sanitation Control Board - Issue of orders regarding -

==========

Preamble:-

At present about 17 million gallons of water per day is being supplied to Bangalore City, which has a population of nearly 13 lakhs, out of which about 4 million gallons per day are utilised by the various industrial concerns. The per capita consumption works out to about 10 gallons per day only which is very inadequate for a rapidly growing Metropolitan City of Bangalore. With a view to increasing the supply of water at 40 gallons per head per day, it is proposed to undertake a long range water supply scheme from the river Cauvery, at an estimated cost of about Rs.13 crores. It is also proposed to take up simultaneously Underground Drainage Scheme at a cost of about Rs.6 crores and Improvements of the Distribution System at an estimated cost of about Rs.4 crores.

As the combined scheme costs about Rs.23 crores, several technical and administrative problems may have to be faced during actual execution. In order that such problems may be solved without the least delay and the work may progress steadily with due regard to economy and efficiency, It is considered necessary to constitute a control board comprising Ministers and responsible officers of Government.

ORDER NO.PWD 81 GTW 63, Dated the 19th August 1963.

Government are pleased ro constitute " Bangalore Water Supply and Sanitation Control Board" for a period of three years in the first instance, with effect from the date of the Government order with the following personnel:-

1. The Chief Minister of Mysore	...	Chairman.
2. The Minister for Public Works.	...	Member.
3. The Minister for Finance.	...	"
4. The Minister for Municipal Admn.,	...	"
5. The Secretary to Govt. P.W.& E.Dept.	...	"
6. The Secretary to Govt. Finance Dept.	...	"
7. The Secretary to Govt. P.L.M.Dept.	...	"
8. The Chief Engineer (Incharge).	...	"
9. Sri H.Ananthachar (C.E.,Retired).	...	
10. The Officer on Special Duty,PWD.,	...	Ex-Officio,Secretary

2. In order to see that there is no delay in according approval to this scheme or to the modifications and revisions therein and deciding tenders, Government hereby order that the following would be the powers and functions of the Bangalore Water Supply and Sanitation Control Board.

(i) To scrutinise the estimates prepared from time to time by the Chief Engineer incharge of the scheme and to advise the necessary modifications if necessary and recommend the estimates for administrative approval of Government.

(ii) To scrutinise the tender notifications and details of tenders in cluding specifications etc. in respect of the scheme and recommend to Government regarding acceptance thereof;

(Page....2).

(iii) To examine and approve from time to time the delegation of such powers both technical and financial as it may deem necessary for the efficient execution of the integrated scheme;

(iv) To examine and where necessary, lay down specifications and schedule of rates for various classes of work with a view to achieveing sound and efficient execution of the scheme.

(v) To decide the programme of construction of different parts of the project keeping in view the funds available, the economy of the scheme and desirability of obtaining quick results;

(vi) To scrutinise the estimates and accounts of expenditure incurred in resettlement and re-housing of the dispossessed persons including land acquisition and connected chaeges;

(vii) To review monthly progress of different units of the scheme and lay down steps to be taken to expedite the work.

3. All decisions taken by the Board will be submitted to Government for approval and in urgent cases, the decision of the Board may be implemented by the Department in anticipation of approval of Government, by a resolution of the Board to that effect.

4. The Board would be assisted by a technical Sub-Committee with the Chief Engineer (incharge) as Chairman and the non-official member Sri H.Ananthachar. The Officer on Special Duty P.W.D., will be the Secretary of the Sub-Committee also.

5. The Sub-Committee will function in the life of the Bangalore Water Supply and Sanitation Control Board. The main functions of the Sub-Committee will be to advise the Board on technical issues relating to or arising out of the following matters coming under the purview of the Board.

1) Estimates of Projects including investigations and designs of Projects;
2) Delegation of powers (in respect of technical matters)
3) Preparation and examination of schedule of rates and specifications;
4) Proposals relating to Sub-estimates, contracts and purchase of materials;
5) Progress and programme of works;
6) Establishment (Technical);
7) Any other matters as may be referred to by the Board.

The proceedings of the Sub-Committee shall be maintained in the form of issues (in brief) and the decisions taken thereon. The Secretary of the Sub-Commitee shall place the same before the control Board for ratification.

6. The exercise of powers delegated to the Chief Engineer, as per Government orders in force are subject to approval of

.....(Page 3).

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

(Public Works Department).

Sub: Constitution, Powers and Functions of the Bangalore Water Supply and Sanitation Control Board - Issue of orders regarding -

==========

Preamble:-

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As the combined scheme costs about Rs.23 crores, several technical and administrative problems may have to be faced during actual execution. In order that such problems may be solved without the least delay and the work may progress steadily with due regard to economy and efficiency, It is considered necessary to constitute a control board comprising Ministers and responsible officers of Government.

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1.	The Chief Minister of Mysore ...	Chairman.
2.	The Minister for Public Works. ...	Member.
3.	The Minister for Finance. ...	"
4.	The Minister for Municipal Admn., ...	"
5.	The Secretary to Govt. P.W.& E.Dept....	"
6.	The Secretary to Govt. Finance Dept....	"
7.	The Secretary to Govt. P.L.M.Dept. ...	"
8.	The Chief Engineer (Incharge). ...	"
9.	Sri H.Ananthachar (C.E.,Retired). ...	
10.	The Officer on Special Duty,PWD., ...	Ex-Officio,Secretary

2. In order to see that there is no delay in according approval to this scheme or to the modifications and revisions therein and deciding tenders, Government hereby order that the following would be the powers and functions of the Bangalore Water Supply and Sanitation Control Board.

(i) To scrutinise the estimates prepared from time to time by the Chief Engineer incharge of the scheme and to advise the necessary modifications if necessary and recommend the estimates for administrative approval of Government.

(ii) To scrutinise the tender notifications and details of tenders in cluding specifications etc. in respect of the scheme and recommend to Government regarding acceptance thereof;

(Page....2).

the Control Board so far as this integrated Long Range Water Supply, Distribution and Underground Drainage Scheme is concerned.

7. The non-official member of the Board and the technical Sub-Committee, will draw Travelling Allowance and Daily Allowance on the scales prescribed in List 'A' of the Annexure to the Mysore Travelling Allowance Rules 1957 and a sitting fee of Rs.20/- per meeting.

By Order and in the name of the
Governor of Mysore,

Chandappa
(CHANDAPPA PATEL), 19/8/63
Secretary to Government,
Public Works & Electricity Department.

To
The Accountant General, Mysore, Bangalore (through F.D),
The Private Secretary to Chief Minister.
The Private Secretary to Minister for Public Works.
The Private Secretary to Minister for Finance Department.
The Private Secretary to Minister for Municipal Admn.,
The Secretary to Govt., P.W.D.,
-do- F.D.,
-do- P.L.M. Dept.,
The Chief Engineer (incharge),
Sri H.Ananthachar, (Retired Chief Engineer). No.335, I Block, Jayanagar, Bangalore.
The Officer on Special Duty, P.W.D.,

Copy to:-
(i) Weekly Gazette.
(ii) Press Table.
(iii) Government Order file..
(iv) spare copies.

oOo

(murthy-19/8/63).

ACHANDRAN, 13

No PWD 141 GTW 62
Copy of G.O

29th Aug 3
50

Dear Dr. Seshagiri Rau,

Sub:- Bangalore Water Supply Scheme.

Ref:- D.O.No.HLH/16(8)/60, dated 8-8-1963.

...

With reference to your above D.O. letter, I am to inform you as under:-

1. WATER AND SEWAGE BOARD: On 10-7-1963 this Government have approached the Government of India, Ministry of Health, for initiating the necessary Central legislation to enable formation of such Boards.

Issued on 30-8-63

2. CONTROL BOARD: A Control Board has already been constituted vide copy of the Government Order enclosed herewith. The question of including some additional members is under consideration.

3. PREPARATION OF COMPARATIVE ESTIMATES: This is being attended to.

4. COMMITTEE OF EXPERTS TO SCRUTINISE THE SCHEME: A technical sub-committee has been appointed as part of the Control Board - vide para 5 of the Government Order. We are happy to learn that Member (E), Planning Commission, has agreed to associate himself with the scrutiny of the technical points. He will be informed of the meetings and furnished the agenda of the Technical Sub-Committee of the Control Board.

5. TECHNICAL COMMITTEE TO REVIEW PROGRESS AND PROGRAMME: One of the functions of the technical sub-committee of the Control Board would be to review progress and programme - vide para 5 of the Govt. Order.

6. CLEARANCE FROM MADRAS: The existing agreements with Madras Government are in respect of irrigation uses. But this is a scheme for supply of water for human consumption, rights to which over-ride all others. Therefore, the question of obtaining clearance from Madras does not arise in the case of this scheme.

I would be very happy to keep you informed of further developments in the matter.

With regards,

Yours sincerely,

(K. BALACHANDRAN)

Dr. S. Seshagiri Rau,
Chief (Health)
Planning Commission,
NEW DELHI.

P. PADMANABHA, I.A.S.,
Private Secretary to the
Chief Minister.

VIDHANA SOUDHA,
BANGALORE-1.

Dated July 26, 1963.

SECRETARY TO GOVERNMENT
No
29 JUL 1963
PUBLIC WORKS & ELEC DEPT

The Private Secretary
to Prof. M.S.Thacker,
Planning Commission,
New Delhi.

Sir,

I am desired to acknowledge receipt of D.O.No.ME/PS/63-865 dated July 18, 1963.

Yours faithfully,

Sd.

(P.Padmanabha)

LC

Copy with the letter from the Member, Planning Commission, New Delhi forwarded to Sedretary, P.W.D. for inclusion in the Bangalore Water Supply file. No further action is necessary on this letter since the contents were discussed personally at Delhi when the Chief Minister had met the Member.

(P.Padmanabha)

MYSORE GOVT. SECRETARIAT
No 604494
P.W.D. (GENERAL IRRIGATION)

The Concerned file

On this subject, no [illegible]/14/GTW62 is in our submission (OS 9/7) and this will be placed in the file after returns as no action is called for

12/8/63

Pl. obtain it & place this in that file

14
12/8/63

D.O. No. ME/PS/63-865

PLANNING COMMISSION
NEW DELHI

July 18, 1963

CONFIDENTIAL

My dear Shri Nijalingappa,

You must have by now got over the slight indisposition, you had when I was in Bangalore few days back. I was very happy that, inspite of your indisposition, we could meet and discuss some of the problems, technical and otherwise, in connection with the Bangalore Water Supply Scheme.

As I told you, a note of the discussions, Dr. Rajagopalan of the Ministry of Health, Dr. Seshagiri Rau and I had with the State officials concerned, was being got ready. This will be sent to them shortly and I will be glad if the various technical and other points which we had raised will be looked into and the necessary details and information will be completed expeditiously.

You will also recall that I mentioned to you the 'gossip' that was about that Cauvery scheme was not an economical one and that some of the schemes which were previously investigated, including the one from river Hemavathi, were more economical and technically better. Of course, you told me that the final opinion was that the Cauvery was the only possible one. I do not know whether the 'busybodies' might start spreading their 'so called views'. As you know, in our request for international assistance for foreign exchange, there would be a team of experts from outside and if such rumours spread to them, we, from our side, ought to assure ourselves that in the scheme we are going to proceed with there are no loopholes. You and I are both anxious that we should not get a set back and I am therefore writing this letter with a request that, I hope, all aspects and all angles which I have discussed will be thoroughly gone into. I am putting

.... it

it mildly when I say, Bangalore water problem is getting so acute that it brooks no delay.

As you would recall, amongst various points I talked to you about, I had also suggested we might have the scheme looked into by a Committee of our experts. We also spoke about the use of steel pipes. These and other points are embodied in the note that will go to the Mysore State officials. I need not repeat. But, as far as my services are concerned, they will be always at your disposal.

With my best regards,

Yours sincerely,

(M.S. Thacker)

Shri S. Nijalingappa,
Chief Minister,
Government of Mysore,
BANGALORE.

D.O. No. ME/PS/63-865

PLANNING COMMISSION
NEW DELHI

July 18, 1963

CONFIDENTIAL

My dear Shri Nijalingappa

You must have by now got over the slight indisposition, you had when I was in Bangalore few days back. I was very happy that, inspite of your indisposition, we could meet and discuss some of the problems, technical and otherwise, in connection with the Bangalore Water Supply Scheme.

As I told you, a note of the discussions, Dr. Rajagopalan of the Ministry of Health, Dr. Seshagiri Rau and I had with the State officials concerned, was being got ready. This will be sent to them shortly and I will be glad if the various technical and other points which we had raised will be looked into and the necessary details and information will be completed expeditiously.

You will also recall that I mentioned to you the 'gossip' that was about that Cauvery Scheme was not an economical one and that some of the schemes which were previously investigated, including the one from river Hemavathi, were more economical and technically better. Of course, you told me that the final opinion was that the Cauvery was the only possible one. I do not know whether the 'busybodies' might start spreading their 'so called views'. As you know, in our request for international assistance for foreign exchange, there would be a team of experts from outside and if such rumours spread to them, we, from our side, ought to assure ourselves that in the scheme we are going to proceed with there are no loopholes! You and I are both anxious that we should not get a set back and I am therefore writing this letter with a request that, I hope, all aspects and all angles which I have discussed will be thoroughly gone into. I am putting

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CHANDAPPA PATEL, I.A.S.,
Secretary to Government,
Public Works & Elec.Dept.

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, dated, 2nd Septr. 1963.

Dear Shri Joshi,

P-76-77

I am ~~enclosing herewith a copy of~~ forwarding a copy of D.O. letter from Prof.M.S.Thacker, Member, Planning Commission addressed to the Chief Minister ~~and draw your attention to para 3 of the same regarding~~ wherein refers to some schemes from Arkavathi and Hemavathy, said to be more economical than the present Cauvery Scheme. I am aware that pros and cons of these are dealt with in your Project Report, ~~at~~ to some length. All the same, I have to request you to please send detailed facts and figures giving the draw-backs in adopting Arkavathy or Hemavathy. Detailed statistics for the rainfall, cultivable land potential, the existing irrigation ~~needs~~, future demands for irrigation in Arkavathy Valley may please be collected for substantiating our conclusion that ~~if~~ the waters available in Arkavathy are required for badly needed irrigation in that valley and no appreciable balances are left for water supply.

2. So far as Hemavathy scheme is concerned, the probable cost of such a scheme may be compared taking into account, conveyance of water from Hemavathy Reservoir upto Bangalore via (a) Hemavathy Left Bank Canal and (b) from terminus of Canal upto Bangalore City by a rising main. It is presumed figures for these have already been worked out and if not the same may please be done.

3. Comparison of economics of laying one pipe line for 60 MGD versus laying 2 pipe lines of

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30 MGD each in two stages may also please be done. Such comparison of costs should include, in addition to the net capital outlay (a) the cumulative interest charges on the capital outlay till all the ~~xxxxxx~~ 60 MGD of waters are drawn and consumed and (b) the cost of operation and maintenance ~~cost~~ of the plant and pipe line minus revenues realised.

Yours sincerely,

(CHANDAPPA PATEL)

Shri K.M.Joshi,
Chief Engineer (General),
BANGALORE.

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CHANDAPPA PATEL, I.A.S.,
SECRETARY TO GOVERNMENT
PUBLIC WORKS & ELECY.DEPARTMENT.

Mysore Government Secretariat,
Public Works Department,
Vidhana Soudha,
Bangalore, Dt. 6th September 1963.

D.O.No.PWD 68 GTW 63.

Dear Shri Joshi,

I am forwarding herewith an extract from D.O. letter from Prof. M.S. Thacker, Member, Planning Commission addressed to the Chief Minister which refers to some schemes from Arkavathi and Hemavathy alleged to be more economical than the present Cauvery Scheme. I am aware that pros and cons of these are dealt with in your Project Report at some length. All the same, I have to request you to please send detailed facts and figures giving the draw-backs in adopting Arkavathy or Hemavathy. Detailed statistics for the rainfall, cultivable land potential, the existing irrigation and future demands for irrigation in Arkavathy Valley may please be collected for substantiating our conclusion that the waters available in Arkavathy are required for badly needed irrigation in that valley and no appreciable balances are left for water supply.

Issued on 6-9-63

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3. Comparison of economics of laying one pipe line for 60 MGD versus laying 2 pipe lines of 30 MGD each in two stages may also please be done. Such comparison of costs should include, in addition to the net capital outlay,

contd.....

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(a) the cumulative interest charges on the capital outlay till all the 60 MGD of waters are drawn and consumed and (b) the cost of operation and maintenance of the plant and pipe line minus revenues realised.

Yours sincerely,

(CHANDAPPA PATEL).

Sri. K.M.Joshi, B.E.,
Chief Engineer (General),
BANGALORE.

EXTRACT.

3. You will also recall that I mentioned to you the 'gossip' that was about, that, Cauvery scheme was not an economical one and that some of the schemes which were previously investigated, including the one from riverHemavathi, were more economical and technically better. Of course, you told me that the final opinion was that the Cauvery was the only possible one. I do not know whether the 'busy- bodies' might start spreading their ' so called views'. As you know, in our request for international assistance for foreign exhhange, there would be a team of experts from outside and if such rumours spreadto them, we, from our side, ought to assure ourselves that in the scheme we are going to proceed with there are no loopholes! You and I are both anxious that we should not get a set back and I am therefore writing this letter with a request that, I hope, all aspects and all angles which I have discussed will be thorougly gone into. I am putting it mildly when I say, Bangalore Water Problem is getting so acute that it brooks no delay!

4. As you would recall, amongst various points I talked to you about, I had also suggested we might have the scheme looked into by a Committeeof our experts. We also spoke about the use of steel pipes. These and other points are embodied in the note that will go to the Mysore State officials. I need not repeat. But, as far as my services are concerned, they will be always at your disposal.

kjp.

Proceedings of the First Meeting of the Bangalore Water Supply and Sanitation Control Board held on 29th August 1963 at 4. P.M. in the Chambers of the Chief Minister at Vidhana Soudha, Bangalore.

PRESENT

1. Shri S.Nijalingappa, Chief Minister. .. Chairman.
2. Shri Veerendra Patil, Minister for Public Works. .. Member
3. Shri K.Puttaswamy, Minister for Municipal Admn. "
4. Shri Chandappa Patel, Secretary to Govt., P.W.& Electricity. "
5. Shri K.M.Joshi, Chief Engineer(General). .. "
6. Shri H.Ananthachar Chief Engineer(Retired) .. "
7. Shri H.L.Lingaraj Urs, Deputy Secretary, Public Health, Labour & Municipal Admn. Represented Secretary, P.L.M. "
8. Shri N.S.Bharath, Deputy Secretary, Finance Dept. Represented Secretary, F.D. "
9. Shri S.G.Balekundry, Officer on Special Duty, P.W.D. Secretary

The following were also present:

10. Shri K.B.Murarappa, Deputy Secretary, Irrigation.
11. Shri B.S.Mahanthannavar, Superintending Engineer.

The Board perused the D.O.Letter of Dr.S.Seshagiri Rao, Chief (Health) Planning Commission addressed to the Chief Secretary to Government of Mysore and came to the following conclusions:

1. Constitution of Water and Sewage Board:

A reference has been made to the Centre by P.L.M.Department to have a Central Legislation enacted to enable State Governments to constitute such Board.

2. Source of Supply:

The Planning Commission should be impressed that

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their could be no alternative source and that this Government have decided on the choice of Cauvery after examining all other alternatives and have been convinced that no other scheme would give sufficient water to the growing population of Bangalore Town.

3. Committee of experts to review the Programme and Progress:

The Control Board already constituted would serve this purpose.

4. Technical Committee to scrutinise the Scheme: The Technical Sub-Committee attached to the Control Board is meant for this purpose. Also it was decided that Mr.N.V.Modak may be appointed as a member of the Control Board and its technical Sub-Committee. It was also decided that the Mayor and Commissioner of the Bangalore City Corporation may be appointed as additional members and Prof.Thacker may be invited for the Board Meetings.

5. Cauvery Agreement and the Scheme:

It was felt that the question of obtaining consent from Madras Government does not arise as (i) this scheme is outside the purview of the Agreements which are only in respect of Irrigation and (ii) Water Supply rights override those of irrigation. As such Madras has also had a number of water supply schemes on Cauvery and its tributaries, without obtaining prior consent of Mysore.

Regarding inviting tenders for pipe line work, it was decided to await the decision of the Technical Sub-Committee and Control Board regarding the choice between Steel and pre-stressed pipe. It was decided that this should be done as soon as Mr.Modak joins the Control Board.

It was also decided that lands may be acquired for laying all the pipe lines required for the ultimate stage.

It was decided that the Board may meet on 5th September 1963 at 5 P.M. in the Chambers of the Chief Minister when Mr.Thacker would also be present and that Mr.Modak may be invited to this meeting.

sd/-(S.G.Balekundry)
Secretary,
Bangalore Water Supply & Sanitation Control Board

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, dated Sept.1963
Bhadrapada, 1885

NO.PWD 21 MSC 63

Forwarded to the Members of the Bangalore Water Supply and Sanitation Control Board, for information.

(S.G.Balekundry)
Secretary,
Bangalore Water Supply
and Sanitation Control Board.

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Proceedings of the first meeting of the Technical Sub-Committee f Bangalore Water Supply and Sanitation Control Board held on 12.9.63 t 4 P.M. in the chambers of the Chief Engineer (General).

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embers present:

1. Shri K.M. Joshi, (Chief Engineer - General) .. Chairman
2. Shri N.V.Modak, Consulting Public Health Engineer, Bombay .. Member
3. Shri H. Ananthachar, RetiredChief Engineer .. Member
4. Shri S.G.Balekundry, Officer on Special Duty, P.W.D. .. Secretary

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The Committee discussed the following subjects and came to the conclusions as below:

Item I: Choice of source of water:

a) Arkavathy: Only about 25 MGD of water are available and that too if the prospective irrigation in the valley is to be sacrificed. Acquisition of lands would pose problems as fertile lands are coming under submersion. Therefore the Committee came to the conclusion that it is better to go in for a reliable source like Cauvery which would give adequate supplies of water.

b) Hemavathy: It was felt waters from Hemavathy have to be tapped from the Hemavathy Reservoir which would mean (i) providing storage at Hemavathy involving heavy submersion of good cultivable lands and (ii) pumping water for nearly 100 miles, thus resulting in heavy capital outlay on the scheme - nearly Rs.20 Crores. Also the source of Hemavathy would not be effective and reliable as Cauvery and Sivasamudram draining Hemavathy, Cauvery, Lakshmanathirtha and Kabini and with two reservoirs, namely Krishnarajasagar and Kabini. Therefore the Sub-Committee agreed that Hemavathy has to be ruled out as a source of water in preference to Cauvery.

c) Cauvery at Sivasamudram: This source had the advantage of tapping waters Cauvery, Lakshmanathirtha, Hemavathy and Kabini and therefore more reliable in supplies. Moreover the distance of the rising main involved is only about 58 miles. Therefore Cauvery at Sivasamudram is ideal from all angles.

Item II. Conveyance of water from Power Channel from Sivasamudram Anicut upto Netkal Balancing Reservoir:

It was felt since the Power channel has a discharging capacity of 900 cusecs only 300 cusecs are required for generation of power at Sivasamudram etc. there ~~should be~~ would be adequate surplus capacity in the channel for drawing not only 60 MGD for the present but even 120 MGD or more in future. It was also understood that the existing Power Stations are either to be pensioned off or else submerged under the Cauvery Hydro-Electric Scheme and in no event are they to be expanded. However the Committee recommended that Government should pass clear orders to the effect that the waters required for Bangalore Water Supply should have the first priority over the requirements of power generation so that water supply does not suffer.

Item III. Pure Water Reservoir: It was recommended by the Sub-Committee that the capacity thereof should be 4 million gallons instead of 2 million gallons. In case this capacity proved excessive it could be adjusted

Proceedings of the first meeting of the Technical Sub-Committee of Bangalore Water Supply and Sanitation Control Board held on 12.9.63 at 4 P.M. in the chambers of the Chief Engineer (General).

Members present:

1. Shri K.M. Joshi, (Chief Engineer - General) .. Chairman
2. Shri N.V.Modak, Consulting Public Health Engineer, Bombay .. Member
3. Shri H. Ananthachar, RetiredChief Engineer .. Member
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Item III, Pure Water Reservoir: It was recommended by the Sub-Committee that the capacity thereof should be 4 million gallons instead of 2 million gallons. In case this capacity proved excessive it could be adjusted

against additional capacity to be provided when 120 MGD would be drawn in future.

Item IV: Zonal Service Reservoirs in the City: It was recommended that the capacity of these reservoirs should be one day's supply as against half a day now provided for.

Item V. Choice of type of pipes: The opinion of the two non-official technical members, namely, Sri N.V.Modak and Shri Ananthachar was that -

a) pre-stressed concrete pipes would not be cheaper than Steel pipes if the diameter exceeds 40", and for 72" diameter Steel would be definitely cheapest - according to figures worked out by Shri Modak, the probable cost of Steel pipes would be about Rs.1100/- per ton and the total cost of the pipe-line would be round about Rs.5 Crores, the amount provided for in the estimates for pre-stressed concrete pipes.

b) The technique of pre-stressed concrete pipes is very recent one andno large diameter pipes have been laid anywhere in the world for length of time and none whatsoever in India so far. It is therefore very risky to go in for pre-stressed pipes with 72" diameter and that too for 58 miles of length and the high heads encountered and it is not prudent to use the Bangalore Water Supply scheme as an experiment.

c) Pre-stressed concrete pipes require imported Steel wires but also cement of very high standards and of quality which may not be forthcoming in our factories.

d) In view of the above factors, it would be safe and desirable to go in for Steel pipes.

However, the Executive Engineer, Bangalore Water Supply Division explained that -

a) large diameter pipes are laid in recent years in foreign countries especially in U.S.A. and it may not be difficult to have such pipes in this country, provided reputed firms could come forward with foreign collaboration,

b) However he was of the opinion that in view of their reliability Steel Pipes should be preferred to pre-stressed concrete pipes even if the former would cost a crore of rupees more than the latter.

The Chief Engineer (General) suggested inviting tenders for both the alternatives giving full specifications for both. So that the Control Board and the Government may make the final choice after receiving the tenders. This suggestion was agreed to by the Sub-Committee subject to the following conditions:

a) the specifications for Steel pipes should be fully drawn and the tenders should be for both the alternatives distinctly, with full specifications for both the types - the tender papers presently drawn provide specifications for only pre-stressed pipes,

b) the pre-stressed concrete pipes should have the entire concrete shell of the pipe caste and pre-stressed in one operation, i.e. without

having a separate external shell applied after casting and pre-stressing an internal shell and there should be longitudinal reinforcement also.

c) The specifications should be consistent with the completely pre-stressed concrete pipe. In this connection Mr.Modak drew attention of the Sub-Committee to the fact that the I.S.S. specifications for pre-stressed concrete pipe would not be applicable since they were prepared in consultation with Hume Pipe Co. who manufacture pipes having an un-stressed outer coating applied on to a pre-stressed shell.

d) Tender notice period should be atleast six months so as to allow sufficient time for even foreign firms interested in this work to carry out necessary investigations.

It was decided that the next meeting may be held on 22.9.1963, since Prof.Thacker comes on 23rd September 1963.

(S.G.Balekundry),
Secretary,
Technical Sub-Committee of the
Bangalore Water Supply and
Sanitation Control Board.

PROCEEDINGS OF THE TECHNICAL SUB-COMMITTEE OF THE BANGALORE WATER SUPPLY AND SANITATION CONTROL BOARD WHICH MET ON 22ND, 23RD AND 24TH SEPTEMBER 1963.

PRESENT:

1. Shri K.M.Joshi,
   Chief Engineer (General)

2. Shri N.V.Modak,
   Consulting Public Health Engineer

3. Shri H. Ananthachar,
   Retired Chief Engineer

4. Shri S.G.Balekundry,
   Officer on Special Duty, P.W.D.

and

5. Shri S.Rajagopalan, Deputy Director,PHE,
   Ministry of Health, Government of India,
   was also present by special invitation,
   on 23rd and 24th September 1963.

I. GENERAL:

0.1. The Technical Sub-Committee examined the Data that had already been collected the designs that have been prepared and the Plans and estimates completed so far. They made an assessment of the further work involved in completing the Project and the Plans and Estimates in a suitable shape for final presentation and concluded that it would be advisable to have all these works completed by about the end of November or early December, before discussions could be initiated with the visiting Team from the World Bank or the I.D.A.

0.2. The Technical Sub-Committee also considered that it would be advisible to put out a call for tenders for the Pipe Line Work from the Netkal Balancing Reservoir up to the City limits within about a month's time as also for the Pump-sets required for the different Pumping Stations proposed in the Scheme. In view of the magnitude of the work involved and the different alternatives to be considered, it may be necessary to grant a period of about 6 months in order to attract satisfactory bids from responsible agencies ON A GLOBAL BASIS. The detailed Specifications, Tender-stipulations and conditions of contract to be incorporated in the Tender should be got finalised as an immediate measure and put up before the Sub-Committee and Control Board for their approval, before the Tenders are issued.

0.3. The Committee decided that the Plans and the Project-Report should be completed and brought to a satisfactory shape and that a Tender Call issued for the Pipe Line and the Pump-sets required for this major Project. Then only we would be in a better state of preparedness to discuss the Project proposals and the financial implications with an I.D.A.Team which may be invited to visit Bangalore in December or in January.

II. The Committee examined the details of Design Criteria incorporated in the Scheme-proposals as prepared by the State Engineers and after detailed discussions, took a decision on the several components of the Scheme as under. The Chief Engineer was requested to revise, modify or alter the scheme proposals in the light of the decision taken and prepare the final report as soon as possible.

(1) Source:-

(a) Analysis reports on the Physical, Chemical and Bacteriological qualities of the raw water, as available at the source, i.e., Sivasamudram anecut in different seasons of the year should be attached to the Report to explain the treatment measures as proposed.

(b) The Committee felt assured that with the construction of the Kabini Reservoir, the required quantity of raw water from the surface flow of the river would be definitely available all the year round.

(c) The committee noted that a proportionate cost applicable to the Water Supply Scheme in respect of 4 months storage is already included as a part of this estimate.

(d) The Committee was also satisfied that the proposed retention of the Power Channel to convey the required flow for the Water Supply Scheme is acceptable.

(2) Treatment Plant:

(a) Instead of 30 minutes detention period for the Floculator and 2½ hours time for the Clarifier, as proposed, it would be an improvement to increase the detention period to 40 minutes in the Floculator and correspondingly decrease the time in the Clarifier

to 2 hrs.20 mts.

(b) While revising the report, the design criteria pertinent to the Floculator, Clarifier and the Filters should be exhibited prominently in the body of the report.

(c) The over-flow and weir loading and the detention period should all be discussed under the clarifier proposals.

(d) The design of the Filters may allow for a normal rate of 100 gallons per square foot per hour but with a provision for over-loading up to 50 per cent. The details of Filter-media and maximum spacings for Wash-water gutters, should also be given. For Back-wash of the Filters, alternatives to be considered may be the conventional high-velocity wash with air-wash or high velocity wash in conjunction with surface washing arrangement with Jets.

(e) The capacity of the clear water reservoir may be increased to 4.5 MGD which would include about 2.5 MGD required for the Wash-water requirements of the filters.

(f) Adequate Laboratory facilities should be indicated as an integral part of the Treatment-Plant at the Head Works.

(3) <u>Design of Rising Main:</u>

3.1. The different alternatives proposed for Rising Main were duly examined. It was decided:

(i) to restrict the maximum working pressure to 300 feet in the case of Prestressed Concrete Pipes and

(ii) to adopt either Prestressed Concrete Cylinder Pipes or Steel Pipes with bituminus enamel coating centrifugally applied wherever the working pressures exceed 300'.

3.2. For the purpose of inviting tenders, two alternatives will be worked out.

1) with 3 pumping stations,

2) with 4 pumping stations.

3.3. Alternative offers may be invited for

(a) Prestressed concrete pipes for all reaches with a pressure below 300 ft.

(b) Prestressed Concrete cylinder pipes for reaches in excess of 300 ft.

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(c) Welded steel pipes with the inside coating with bituminus enamel centrifugally applied for the entire reach, as an alternative.

(d) For the designs of the sizes of pipes the value of Coefficient in the Williams and Hazen formula may be taken as 130.

3.4. The Sub-committee took note of the fact that although higher values upto 155 is recommended by some authorities for new pipes in the materials referred to above, it was considered prudent that a conservative figure may be taken as a safeguard against manufacturing deficiencies and other difficulties in the intial stages of manufacture of big size pipes under the Scheme.

3.5. Prestressed concrete pipes will all be buried below the ground with a minimum cover of 4 ft. In the case of steel pipes, they will be laid above ground on special ring girder designed for the purpose.

4. Water Hammer.

The Committee took note of the different recommendations and the suggestions made by the various authorities in regard to the provision of the water hammer in the designs of the pipe line. Having regard to the general profile of the entire pipe lines and other favourable factors present in this case and considering the fact that the pipes are tested for double the working pressure with the yield stress being twice the stress at test pressure giving a factor of safety of 4 ensured over the working pressure, the Committee decided it was not necessary again to expressly provide for water hammer in the designs. This is in keeping with the standards adopted in more advanced countries in the design of pressure pipe lines.

4.2. The Committee also took note of the fact that high pressure rising main of the water supply to Bangalore City from T.G.Hally source has a discharge head of 1000 feet for the past 30 years when no trouble directly ascribed to water hammer effects is noticed throughout this period.

4.3. The essential fittings in the rising mains in the shape of by-pass, air vessels, relief valves, air valves of suitable sizes

should all be provided as ancilliary equipment to safeguard the water hammer according to the standard practice. The valve size should be 48".

4.4. On the question of providing rising main in two separate pipe lines one to act as stand-by to the other in the case of a break down of one pipe, the Committee is of the view that two pipe-lines as against one, would add to the cost to the extent of 40% without any corresponding benefit. The supply available from Arkavathi would always be available as a stand-by for breakdown in the Cauvery supply and, in addition, the 24 hours capacity of the service storage in the zonal reservoirs within the City Distribution System will provide additional supplies in such an emergency.

4.5. 24 hour storage in the zonal reservoir, however, would be added in stages to keep pace with the actual population growth based on the design estimates.

5. Efficiency of Pumps.

5.1. In the design of the pump-sets for the different pumping stations, the Committee felt that it would be safer to assume an over-all efficiency of 75% instead of 80% as proposed. Duty and capacity of the pump-stations may be revised accordingly.

6. Disinfection.

6.1. For keeping the pipe-line for a distance of 60 miles in healthy conditions and prevention of growth of any organisms, the Commitee considered it desirable to introduce as a part of the design, provision for disinfection with chlorination, one at the treatement plant and aother at the last pumping station near the City. It may be necessary to introduce intermediate disinfection in one of the intermediary pumping stations, should it be found necessary, during the actual execution of the work. Provision for chlorinating stations at the intermediate points may therefore be included as a part of the project designs.

6.2. Adequate stand-by provision for chlorinator equipment and chlorine cylinders should be provided as a part of the scheme. Special attention should also be given for chlorinegas storage.

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7. Distribution System.

7.1. The Distribution System designed may be based on the lines already worked out. The rate of water per capita may be assumed as 40 gallons per day excluding the needs of the industries. The peak demand may be taken at 225% of the average demand. The distribution of industrial requirements may be designed from the nearest zonal reservoirs.

7.2. The lumpsum provisions in the estimate should be justified by detailed estimates.

7.3. In the maintenance cost, provision for alum as based on the dosage of ½ a grain per gallon. This may be sufficient to keep the water clean normally, but 2 to 3 grains per gallon may be allowed for about 4 months in the year for the purpose of exhibiting maintenance charges.

7.4. The lumpsum provision of 38 lakhs shown for Tools and Plant may be reviewed in the light of decisions taken to entrust the pipe line work as a whole to intending tenderers.

7.5. In the tenders to be called for, for the pipes it should be made specified that the Department would have the option to entrus the work either for any part or in full instead of entire pipe-line.

7.6. For the rising main, sluices valves, scour valves and other appurtenances may be provided appropriately at necessary points based on proper examination of the profile of the entire pipe-line. The size of valves may be 48". Pumps, valves and all other appurtenances should be procured by Government on the advice of the Control Board and the Sub-Committee thereof without going through the Stores Purchase Committee and other agencies.

8. Sewerage and Sewage Treatment.

8.1. The details of sewerage design as already been worked out were studied by the Committee and generally found to be in order. The basic design criteria for the design of sewerage may be as under:

a) laterals and branches upto a size of 15", may be designed for 3 times DWF when sewer is half-full.

(b) Main and intercepting sewers may be designed for 3 times DWF when 2/3 full.

(c) Outfall sewers should be designed for 3 times DWF, when ¾ full, minimum velocity being 2.5' per second.

9. TREATEMENT.

9.1. Proposals to deal with the Combined Sewage from Challaghatta and Koramangala Valleys in one place at Belandur is generally acceptable. The estimate may be finalised providing for primary treatement followed by secondary treatment with high rate of bio-filteration with 100% recirculation.

9.2. Sludge digesters will be designed on the basis of one Cft. per capita with a seeding time of 3 weeks and the depth of the tank should be restricted to 25 feet. These digesters may be open for the present and sludge drying beds may be provided to dry these sludges.

9.3. Sewer system must be adequately ventilated. Ventilating shafts in smaller sewers may be placed at 600 ft. in smaller sewers and at 1000 ft., in bigger sewers.

9.4. Stone-ware pipes may be provided upto 15' and concrete spun pipes above 15". Specifications for the pipes should enjoin the proper commissioning of the same in addition to normal prescribed standards.

9.5. The sewage from Vrishabhavathi valley can be treated in a separate place in South-west of the City as proposed. Details of treatment would be similar to one already proposed for Challaghatta and Koramangala.

1/10/63

(S.G.Balekundry)
Secretary,
Bangalore City Water Supply and Sanitation Control Board.

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT

INTERNATIONAL DEVELOPMENT ASSOCIATION.

QUESTIONAIRE FOR WATER WORKS PROJECTS.
(Revised December 31,1962)

The following questionaire is furnished to organizations requesting an IBRD or IDA loan for a water works project. Inasmuch as the Bank/IDA is called upon to appraise many types of projects, no standard questionnaire can be fully applicable to all potential borrowers. The questions that follow have been designed to furnish the Bank/IDA with as much information as can conveniently be submitted in written form before a field investigation is made by the Bank/IDA staff. Some of the questions will not be applicable to a particular applicant,while additional questions will always be necessary in particular circumstances. In all cases the Bank/IDA follows its analysis of the written submission with a field appraisal. The questionaire indicates the general sccope and extent of the Bnk/IDA investigation of a proposed project; the substance of what follows must be obtained either in writing or in the field.

Applicants are accordingly requested to provide to the Bank/IDA in the English language if possible,three (3)copies of the information outlined to the extent that the questions apply to their project. Some of the questions may overlap,and it is not necessary to follow the order given here as long as the substance is dealth with. Any material previously prepared which accurately covers portions of the subject matter may be submitted in its original form.

In any case,where there is doubt as to the Bank/IDA requirements, applicants should not hesitate to ask for clarification. Applicants may not be sure how detailed an answer is expected to some of the questions, in such cases it will normally save time to answer the questions more rather than less fully. The Bank/IDA is as much interested in the reasons lying behind the answers as in the answers themselves,and therefore it is important to explain any assumptions or estimates on which the answers are based.

Projects should,if possible,be sent to the Bank/IDA for preliminary appraisal after the design basis and preliminary cost estimates have been established but before final engineering plans have been drawn up.

QUESTIONNAIRE FOR WATER WORKS

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ANNEX 2 INCOME STATEMENT

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ANNEX 4 INCOME FORECAST

I. GENERAL

1.01 Name and address of proposed borrowdr and of the agency (if different) which will carry out the project.

1.02 Amount of IBRD/IDA loan funds requested.

1.03 Give a general history and description of all existing agencies which now are responsible for providing water supply services in the areas to be affected by the proposed project. Include information on organization, administration, relationship to government departments, responsibilities, and all pertinent legislation and regulations.

1.04 Describe the agency which will carry out the project and which will be responsible for water supply services in and around the City. Include information of the type requested under 1.03 if this agency is not already described under 1-03. In addition include organization charts. Provide a list of officers and directors of this agency (if these positions have been filled) with names, ages, experience, method of remuneration including any incentives, and principal outside connections and activities. Describe and furnish copies of all existing or proposed legislation, regulations, charters or by-laws that outline the Authority's responsibilities for furnishing water for domestic, industrial and commercial uses, and affecting the Authority's power to carry out the proposed project, to borrow funds, to charge fees and taxes and to enforce their collection. Describe any proposed changes. Describe the procedure and time required to form this Authority if it does not exist in the proposed form at the present time.

II. THE EXISTING WATER WORKS.

The questions in the following sections are intended to provide information about recent water use from existing sources, the characteristics and quantity of water produced from these sources, the existing water works facilities and the operation and management of the existing water supply agencies. Please notethat questions under SectionV, THE PROJECT, deal with estimated demand for water and the proposed project.

The following definitions apply to certain words or terms in so far as this questionnaire is concerned:

Water System - The total system of pipes and structures intend for the collection, treatment, pumping, storage and distribution of water to industries, businesses, residences and other consumers. In some cities there are a number of separate water systems. It is assumed that upto completion of this project, separate water systems would be combined into a single system.

Private Water System - A privately owned and operated water system including a water source, such as a well, together with appurtenant facilities used primarily by a single residence, business, industry, etc.

Water Agency - The company or department responsible for the administration and Operation of a water system.

Raw Water - Water from any source before it is treated.

Raw Water Supply Line - Pipe or other conduit taking water from source to point of water treatment - sometimes flow is by g vity and sometimes by pumping with "raw water pumps".

Water Treatment - Any physical or chemical process applied to raw water is an attempt to improve its quality or safety such as coagulation (flocculation), sedimentation, filtration, chlori tion, etc. Treated water is sometimes referred to as "clear wat

Water Main - A water pipe in the transmission or distribution system.

Transmission Mains - The pipies used to transport water from th points of treatment to the distribution system. There are usual very few, if any, service connections to a transmission main.

Distribution System - The total network of water mains to which service connections are made.

Service Connections - Usually, the small pipe by which a water customer is served extending between a distribution main and a water meter (if any). The exact point of division between a service connection and a plumbing system varies from system to system.

Plumbing - The water piping ~~xxxxx~~ within a building which - is connected to the service connection.

Water Produced - The volume of water which is pumped into the distribution system per unit of time.

Water Use or Water Consumption - ~~The volume of water which is pumped into the distribution system per unit of time.~~ The actual volume of water which is actually used or ~~consumed~~ per unit of time.

Lost Water or Unaccounted-for water - The difference between water produced and water used.

Water Demand - The estimate-d volume of water which would be used per unit of time if an ~~unlimited~~ supply were available to consumers.

Domestic Consumption - Water actually used in residence for washing, bathing, cooking, drinking and similar purposes.

Population Served- The people who actually have access to and use water from a water system either by service connections or by taking water from public taps, fountains, etc., which are connected to that system.

A. Water Production and Use

2.01 For each of the last five years, give total water produced (imperial or U.S. gallons, cubic feet or cubic meters - indicate which) for each separate water system and total for all systems in the area which will be served by the new system. Please ~~xxxx~~ provide this by months for the last three years. Provide actual data if available; otherwise provide the best possible estimates.

2.02 How are the above production data determined (master meters, pump rating, hours of operation or otherwise), and what is the probable margin of error in %? Fully explain all estimates. Describe any efforts to check or verify data or estimates.

2.03 Has any data been collected or have studies or estimates been made of peak monthly, daily or hourly flows in any of the existing systems within the last five years? Provide such data or estimates if available and analyses thereof.

2.04. For each of the last three years, give the distribution of water as follows for each individual system:

Class of Water User	No.of Service Connections			Annual Distribution (Volume)		
	Metered	Not Metered	Total	Metered	Not-metered	Total
Domestic						
Commercial						
Industrial						
Public Fountains or taps						
Public or Government						
Free(give details						
Wholesale to other systems						
Other(give details)						
Unaccounted-for water.						
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N.B. If actual data are not available, estimates should be provided and fully explained. Explain your definition of these classes. Other classifications may be used if they provide a detailed breakdown of water uses equal to that given in this suggested table. Is the metered distribution shown in the table calculated on the assumption that all customers have used at least the quantity allowed for the minimum charge?

2.05 Provide a report on the most recent National Census in the most complete form available and also reports on any previous population counts. From any other available studies of population provide data which could be related to this city and its environs.

2.06. Name and describe the areas of the city served by each individual water system as shown on the schematic map requested under 5.01. Describe major industrial, commercial or institutional water consumers. Give figures for the total population of each area and for the 'population served' by the water system in each area. How is the 'population served' calculated? Give a historical record or estimate of past population growth for each area if available. Give a table showing, for each of the last five years, the average (actual or estimated) water consumption per person per day by areas for (a) the total population (b) the population served.

B. Rates and Billings

Provide the following information on each of the various existing water supply systems:

3.01 Give complete details of present water service charges or taxes including minimum charges, consumption allowed for minimum charge(if metered), charges for different service sizes or classes, penalty or rebate provisions for delayed or prompt payments, basis of charges for public taps, etc. Are there any special charges for government, military, charitable and other special users? How long has each present rate schedule been in effect?

contd...

3.02 Describe any charges in the rate schedules within the last 10 years.

3.03. Provide information on water rates or charges in comparable cities or system in your Country.

304. How often are bills rendered for each class of service? How is this done (by mail, in person by bill collectors, etc.)? How long a period elapses between bill rendering and collection? What is the method by which collectors are compensated?

3.05 Is water service shut off if bills are not paid, After what length of time, How many services were disconnected for non-payment of bills in each of the last five years? How many of these disconnected services were connected again at a later date? Describe all other steps taken to enforce payment of bills.

3.06 Describe any other charges to water customers, such as charges to property owners for construction of new mains in ~~xxx~~ streets adjoining such property, charges for fire hydrants installed on public or private property, etc. except meter and service connection charges which are covered under WATER METERS, SERVICE CONNECTIONS AND CUSTOMER SERVICE

3.07 Who is responsible for recommending and approving tax or rate changes? What is the procedure for making changes? How long does it take to have changes approved and put into effect?

C. General

4.01 Give an estimate of consumption of water drawn from private source in each of the areas which will be served by the public system upon completion of the proposed project. Describe all major private sources giving the total capacity of each one and the percentage of that capacity now being used.

4.02 Explain water use practices by all people who make use of water from sources other than the piped water system for which data has been presented under PRODUCTION AND USE - such as from ponds, vendors, 'tanks', rivers, wells, etc. This data should be consistent with the data on population and water consumption requested elsewhere in this questionaire.

4.03 Give estimates of the cost of installing and operating typical private residential, commercial and industrial water systems in the areas to be served by the proposed system. Give capacities of typical installations.

4.04. Describe water main extention policies. How are extensions initiated. How are the costs of water main extensions recovered?

4.05 Can any of the existing water agencies compel customers to take its water when it extends its distribution system into a new area? By what means?

contd.....

4.06 When a new distribution main is installed, what percentage, on the average, of potential customers or dwellings are connected to the main in each of the first three years? Illustrate by examples showing the actual rate of making new connections and the increase in population served along recently constructed mains.

4.07 Do any of the agencies cutomarily shut off water in various mains during the day or week? Name the systems and describe these operating practices. Describe all other important interruptions or restrictions in water service during the last 5 years.

4.08 Give an estimate of the number and typical sizes of booster pumps (pumps used to increase pressure of water taken from mains) installed privately, to serve individual buildings. If possible, give separate estimates for (a) residential buildings, and (b) commercial buildings.

4.09 Give data on the cost of water to people who purchase water from bearers or vendors. What are the sources of such water? What do the vendors pay for the water they sell?

4.10 Give available data on a cost-of-living index, labour costs, rents or some other price series showing the trend in prices during the last 10 years. Give data on incomes per family per capita.

D. Water Works Facilities

5.01 Furnish a general schematic map showing all present water systems including the areas served by each, supply sources, and (by symbols) the location of treatment plants, pumping stations, storage tanks, reservoirs, transmission and principal distribution mains. Give information on the average % of time each system is under pressure and the maximum average, and minimum pressures in each system when under pressure.

5.02. List and describe raw water sources for each water system. For surface sources, give data on variations in levels, discharge or yield, and other important characteristics related to capacity. For ground water, give withdrawal data including static and pumping levels, and any trend of change. For stored or impounded sources, give yields, variations, and description of operating procedures. Submit any geological studies and neighbouring areas.

5.03 Give results of recent analyses of the untreated water from each source, including temperatures, turbidity, color, type and concentration of bacteria, PH, carbon dioxide, and the concentration of chlorides, hardness, total solids, iron and manganese, ammonia nitrogen, nitrites, nitrates and other salts. Describe the arrangements for the testing of water and the analytical standards used. Describe any problems with the quality of the water and any changes that have occured. Give the dates of all analyses.

5.04 Describe raw water pumping stations. List major pumps giving type and characteristics, including rated and present capacity (if known), how they are driven, the dates of installations and indicate the general condition of pumps and other equipment. Give the total capacity of each station. Describe any recent difficulties. Give present overall efficiency of pumping units and drivers. Give present yearly power or fuel costs and other costs associated with operating each station.

5.05. Briefly describe the raw water supply lines. Provide a simple plan showing line locations, length, diameter, capacities, materials of construction and dates of installation. Indicate physical condition of lines, leakage and any recent difficulties.

5.06. Briefly describe the existing water treatment facilities. Give dates of construction and of any major improvements. In a table list the various treatment elements used at each treatment plant such as chemical feeding, flocculation, settling, filtering, chlorination, etc. Under each element

contd..

in this list give data on the number, sizes and types of units, detention times, filtration rates, chemical feed rates, etc., as may be necessary to illustrate the existing capacities and operating conditions. Indicate physical condition of the plants and any recent difficulties. Give results of actual recent analyses of water before and after treatment which are typical of normal operating conditions.

5. 07 Briefly describe the clear water pumping stations (including well pumping stations pumping directly into the transmissionor distibution systems), reservoirs and storage tanks including capacities. Give dates of installation and major improvements. Provide schematic layouts of major facilities including significant elevations in relation to the treatment plants, transmission and distribution elements. (For pumpting stations, give details as for 5.04) Indicate physical condition and any recent difficulties.

5. 08 Provide general layout plans of the transmission and distribution facilities in each water system showing pipe diameters, approximate lengths, materials of construction, capacities, approximate dates of installation, etc., Include significant elevations, actual flows (if known) and pressures (under maximum, normal and minimum demand condition- if known) by areas within each system, and show the location and size of major valves. Describe the present condition of each system including leakage, and any inadequacies and reeent problems. (Much of the above information can be given on the layout plans by figures or symbols or in tabular form) Explain how capacity, actual flow, pressure, leakage and other data was determined or estimated. Describe any leakage surveys. Indicate number of fire hydrants and any other special installations for fire protection.

5. 09 Provide data on the results of recent analysis of water samples taken from various points in the distribution system for coliform connentration, total count, and chlorine residual. Include the dates of sampling and analyses. Describe sampling and analytical standards and procedures used. Describe any regular program for sampling and analysis of water from the distribution system.

5. 10 Describe the scope and cost of expansion (or replacement) projects for the major parts of the water systems during the last ten years and those now in progress. Give dates. Provide typical specifications for materials and construction used on such projects. Describe whether work was done by the water agency, by contract, or other means.

5. 11 Do any of the water systems employ a regular sequence (work plan) to perform scheduled preventive, as well as routine maintenance of plant and equipment? Provide maintenance expenditure for the last five years for each water system and, if possible, by classifications, supply, raw water pumping, treatment, treated water pumping, distribution, etc.

(Cont'd...P.7)

5.12 Give all pertinent information bearing upon the rights of the water systems to use their sources of raw water. Give details of any disputes about water rights during the last five years or any pending problems. Attach copies of legislation, agreements, court decisions relating to these water rights, etc.

5.13 Describe facilities for power and fuel supply. Show the total volume of usage and unit prices for each in the current fiscal year and during the past five fiscal years for each water system.

5.14 Describe any properties owned or leased for use by the various water systems . Attach details of any pertinent concessions, rights-of-way, etc. Also give details on any property owned by a water system but leased, rented or otherwise used by others. Include information on the real value of all properties and how determined, the terms of any lease, etc.

5.15 Give volume, unit price and total cost of chemicals purchased during the current fiscal year and in each of the last five years - by each water system if possible.

5.16 Describe the principal sources of supply of chemicals methods of purchasing and any long-term purchase contracts in effect for each water system, giving duration, amount, price, etc.

5.17 Describe the normal terms of payments for supplies purchased.

5.18 Describe any present or proposed actions of the Government to allocate materials, control imports, charge duties, etc., which affect or could affect supplies of materials required for the water systems.

5.19 Provide copies of all available records of rainfall and runoff in the areas to be served by the proposed water system and in areas tributary to any possible sources of supply.

E. Water Meters, Service Connections and Customer Service

The following questions include a number on water meters. For water systems which do not have metered service connections now and which do not plan to begin metering in the near future except as part of the proposed new project, a statement to this affect should be made in answer to questions 6.01 through 6.07. For each existing water system:

6.01 Provide data on the number of meters of each size now in service, on hand but not installed, or on order. Give the average amount of water distributed to customers through each size. How many new meters of each size were (a) purchased and (b) installed during each of the last five years? What is the program for the next three years, if any?

6.02 Provide full data on the source of the meters now being purchased: method of procurement, manufacturer, price, type, inspection, specification and performance requirements. Provide data on ownership of the meters (whether by private users, the water system or others).

6.03 What is the experience on the average service life of a meter before -

a) first service maintenance is necessary?

b) ultimate discard or scrapping?

6.04 Describe meter repair and testing facilities, including: repair shop; number of repairmen and other employees and monthly work output; repair parts and test facilities available; any routine program of meter maintenance planned or followed; meter location, test and service records maintained; any incentive pay system used for repairmen; procedure used for detecting, reporting, removing, replacing and charging for defective meters; etc.

6.05 How many meters were out of order at the end of each of the last five years? How many are awaiting repair or replacement currently? How many have been (a) repaired and (b) scrapped during each of the last five years and during each of the last 12 months?

6.06 How many (if any) connections of various types are not metered?

6.07 Are the customers charged for meters? Itemize average charges to customers for the meters, for installation and for repairing meters. Also itemize the actual average costs to the water agency in these categories.

6.08 For each water system, describe construction of typical service connections between water mains and buildings, including depth of burial, length, materials used, method of connecting to main, meter location, if any, and provide a sketch of a typical connection and meter installation. How much of the connection is installed by the water agency? What is the actual average cost of this portion to the water agency? What is the customer charged for this portion? What is the estimated average actual cost of the portion of the connection which the customer constructs? What regulations control the quality of the work done by the customer? With present labor forces and equipment how many new connections can the water agency for each system construct per month?

6.09 Describe in detail the procedure followed by a a potential new customer in order to get a new service connection including any qualifications or deposits which may be required. What are the terms of payment for the connection? What is the average time delay between an application and the installation of the connection? For each of the last five years give data on number of applications filed, number of connections made, the total number of unsatisfied applications at the end of the year, etc. Explain why applications are not all satisfied and any trend in the volume of unsatisfied applications.

6.10 Describe any existing procedures for detecting and taking action on illicit connections, meter bypassing, etc.

6.11 Describe any existing procedures for detecting and repairing faulty connections (not including meters which are covered under 6.04). How is the cost of these repairs recovered? What is the charge to the customer for these repairs (if any)?

6.12 Do any of the water agencies repair plumbing within customer's buildings? If so, what has been the actual cost of this service to each agency during each of the last 5 years? On what basis are the customers charged for this service? What are the total revenues of each agency during each of the last five years for this service (if any)?

F. Personnel and Labour

7.01 Provide a schedule giving by categories of work, the number of people employed by each water agency at the end of each of the last 5 years.

7.02 Describe generally the personnel and labour situation in recent years including:

i) For technical, clerical, skilled and unskilled employees describe the amount of training required and any training given.

ii) Compensation (salaries, wages or equivalent, housing, medical care and other fringe compensation); any pension plans, or other benefits paid or accrued for employees. Are employees under civil service (attach copies of applicable civil service and labour regulations)?

iii) Strike record, degree of unionisation at present, pressure for further unionization.

iv) Turnover rates.

7.03 Describe generally the problems encountered in obtaining and keeping adequate numbers of qualified personnel and labourers.

7.04 Describe any labour regulations which might affect the staff and operations of consultants and contractors which are employed for work in connection with the water systems.

III - SEWAGE DISPOSAL.

The questions in the following section are intended to produce information about the methods now employed for disposal of human wastes and sewage to the extent that such information is required in connection with the planning of the water works project.

The following definitions apply to works or terms used in this questionnaire when referring to sewerage:

Sewage - the used water supply together with any solids, industrial wastes and infiltration as may be mixed with it.

Sanitary sewage - Sewage containing human wastes discharging from the waste plumbing of dwellings, offices buildings, factories or institutions.

Industrial wastes - liquid borne wastes from an industrial or commercial process.

Storm water - excess water from rainfall that runs off on the surface of the ground or in a storm drain.

Infiltration - water which has leached from the ground into the sewer.

Exfiltration - sewage which seeps out of a sewer into the ground.

Sewer - a channel, conduit or pipe for a conveyance of sewage including pipes under pressure (such as a force main).

Separate sewer - a sewer which carries sewage but generally excludes all storm water.

Storm drain - a sewer which carries only storm water.

Combined sewer - a sewer which carries both storm water and sewage.

Outfall - the sewers which discharge sewage into bodies of water, low land or other points of ultimate disposal with or without treatment.

Sewerage - the total sewers, structures, equipment etc., in-tended for the collection, transportation, pumping and treatment of sewage.

Waste plumbing - building plumbing which carries drainage from sanitary fixtures.

A. Sewage Disposal Methods:

8.01 Describe in general the sewage and human waste disposal methods employed throughout the area or region which ultimately will be served by the proposed new water system. Include approximate figures as to population now served by various disposal methods.

8.02 Provide a simple schematic map outlining the areas served by existing sewers and showing the location of existing sewage treatment plants and outfalls.

8.03 For each existing sewer system, give figures on total yearly or average daily sewage flows(U.S.gallons, Imperial gallons, cubic feet or cubic meters--specify which)at the present time, if possible.

8.04 For each past year for which data are available or estimates can be made, give the total number of sewer connections, the total number of buildings served by these sewer connections, the recorded or estimated population served and the total length of sewers for each system.

8.05 Are any of the agencies which provide sewage or waste disposal services administered, managed or operated jointly with any water agency? If so, fully explain the relationships between such agencies. Are accounts kept completely separated from those of the water agencies?

8.06 Are there any expedtations that the construction of the proposed water project will create new, serious and immediate problems with sewage or waste disposal? If so, explain and describe generally any tentative measures proposed to remedy these problems.

B. Sewer Service Rates and Billings:

9.01 In general, how are the costs of each agency now providing sewage or waste disposal services met; including costs of administration, operation, maintenance, depreciation reserve normal improvements and debt service?

9.02 In any cases where sewer service charges or taxes are billed or collected with water service charges, give complete details of these sewer service rates now in effect including any special schedules for government, military or other special sewer users. How long have these schedules been in use? Describe any changes made in the schedules during the last ten years and any proposed changes.

IV. FINANCES.

The information requested on finances is essential for gaining a clear picture of the assets and liabilities of any agency responsible for water supply as well as for analyzing trends in revenues and expenditures for the services which will be performed in the future by such agencies. Wherever records of past operations have not been kept in a manner appropriate to supply answers to our questions, engineers and accountants of the existing agency will have to prepare suitable appraisals and financial statements are not available, pro forma state-

ments are to be submitted. It should be understood that, although this might involve in some cases a considerable amount of work, it is in any case necessary in order to provide suitable financial data for a financing institution, and therefore the investigation should cover all the existing facilities which will come within the jurisdiction of the water agency upon completion of this project.

For each of the existing systems:

10.01 For the last five fiscal years, furnish copies of the published Annual Reports, or of administrative reports to the controlling authority containing analysis of, and comments on, the financial data.

10.02 Furnish balance sheets(or Pro-forma balance sheets) as at the close of each of the last five fiscal years(and any more recent interim statement) in the form shown in Annex 1.

10.03 Furnish income statements(or pro forma income statements) for each of the last five fiscal years, and any more recent interim statements, in the form shown in Annex 2. If an interim statement is provided, also provide a corresponding statement for the same period of the previous year.

For itemized operating costs, show on a separate table the amounts budgetted for those years and for the current year compared with the amounts actually spent. Describe fully the system of budget authorization and reporting.

10.04 Furnish cash flow statements for the periods covered by the income statements, in the form shown in Annex 3. The purpose of this statement is to show for each year what funds were needed and how they were provided. This statement should be consistent with the schedules provided under 5.10. Items may have to be adjusted if necessary to fit each particular agency.

For investment in fixed assets, show on a separate table the amounts budgetted for these years and for the current year compared with those actually spent.

10.05 If available, attach auditor's report and certificate covering all statements furnished.

10-06 Long-term debt - Long-term debt refers to loans contracted (or bonds sold) originally repayable in more than one year. (allocations received by the water agencies about which the terms of repayment are unclear or uncertain should be shown separately and fully described)

i. Itemize loans outstanding at date of latest balance sheet, showing for each the date of issue, original amount, amount now outstanding, currency in which payable, interest rate, maturity or amortization provisions, holder (government, banks,.....) and any

continued.....16.

covenants requiring or limiting payment of dividends, maintenance of working capital, issuance of debt, investment in fixed assets etc.,

ii. If applicable, supply information on mortgages, other liens and covenants.

10.07 Short-term debt - Short-term debt refers to debt repayable within one year of the data on which it was incurred.

Itemize short-term debt outstanding at date of latest balance sheet, showing for each the date of loan agreement, original amount, amount now outstanding, amount remaining available ff any, interest rate, maturity and security provisions. Show any unused lines of credit, and describe their methods of operation. Describe normal renewal procedure and any special provisions or understanding with respect to renewal.

10.08 Equity - (the value of total assets less the total liabilities). Under equity, please show separately, if available, the amount contributed on a permanent basis by any authority to the water agency(such as government grants for public water supply systems) as well as any amount of surplus arising from any revaluation or sale of fixed assets or from any other source.

10.09 Describe purposes of and principles of allocations to all reserves.

10.10 Describe method of valuation of fixed=assets. Describe any revaluations which have been made during the last five years.

10.11 Describe depreciation policy, as applied to major categories of assets. Give the maximum depreciation rates allowd under the law, if any. Is there any provision provision for accelerated or extra-ordinary depreciation? If so, explain how it is calculated and show amount included in depreciation charges for each of the last five fiscal years and the current year as well as the amount included in depreciation reserve in each of the last five balance sheets.

continue.....17.

10. 12 Describe method of valuation of inventories (stores) and method of charging inventories used during the last five fiscal years.

10. 13 Receivables:

i. Give an analysis of all accounts receivable (bills sent out but not collected) at the end of the last five fiscal years, showing those between three and six months delinquent, and those over six months delinquent. List any significantly large outstanding accounts and provide some explanation for such accounts.

ii. If applicable, give amount written off as bad debts during each of the last five fiscal years.

10. 14 Describe any substantial asset or liablity included in the balance sheets under "Other".

10. 15 Describe any substantial non-operating income or expenses in the income statements furnished.

10. 16 Describe any occurrence since the date of the latest financial statements that has materially altered the financial position from that shown.

10. 17 Summarize tax legislation applicable to the water systems, including rates and the method of calculation for taxes, if any, paid by the systems (such as production or turnover taxes income taxes, property taxes).

10. 18 Give details of insusrance carried on fixed assets, inventories (stores), etc., showing companies, amounts in force, types of risks covered, and premiums charged.

10. 19 Give details of any pending litigation by or against the system other than on "water rights" which is covered under 5.12.

10. 20 Describe any subsidies (direct or indirect) or other payments made to the water agency which are not included under previous questions in this section.

10.21 Describe any funds derived from water revenues or taxes which have been transferred to other accounts and used for other purposes during the last five years and which have not been fully covered under previous questions.

Contd-....P.18)

V. THE PROJECT

A. General

11. 01 Provide a graph and a tabulation showing studies and estimates of future total population in the areas to be served by the proposed project. These should indicate a range of possible growth rates. The tabulation should be sub-divided to show population in sub-areas as appropriate for study of the project. Give estimates of the present population and the population at the end of each year until 10 years after the estimated project completion date and at the end of each 5 year period thereafter for at least the next 15 years. Give bases for all estimates.

11. 02 Describe any zoning regulations, regional planning and forecasts for development for the areas to be served by the proposed project.

B. Water Works Project

12. 01 Give a general description of the proposed project. Include a map showing principal roads and geographic features, existing built-up areas, the areas now served by water systems, the areas to which service will be extended under the proposed construction project, and the approximate areas which are expected to be served ultimately by successive future extensions of the water system. The map should also show the location of pumping stations, supply sources, treatment and storage facilities both existing works which will continue to be utilized and new works.

12. 02 Describe in detail the history, schedule and present status of planning, detailed design, construction, procurement of goods, arrangement for financing, etc. for this project or which relate to the project in any way. Explain how the work is to be done by force account, by contract, etc.

12. 03 Provide a graph and tabulation giving the estimated population which you expect actually will be served by the water system. These should indicate a range of populations for each year including the possible maximum, and minimum and the design population used in project planning. These graphs and tabulations should cover the same years as requested under 11. 01 for total population. Populations served, year by year, starting now and through the early years of the probable rate of extending mains and making new service connections, changes in the practice of using private water supplies, etc. The bases for all estimates should be explained in detail.

Contd....P.19)

12.04 Provide estimates of expected total water consmption during the year for each year for which population estimates are given. These should be based upon analyses of present consmption and water use practices as well as trends in population, domestic, commercial, industrial, and other significant types of consumption, unaccounted- for water, use of public watering points, installation of modern plumbing, use of water from other than piped public systems, the cost of water wervice and all other factors which could affect water consumption. These estimates of total yearly consumption should include a range(maximum, minimum and design) corresponding to the range in the estimate of population served given under question 12.03. The estimates of the yearly design consumption should be broken down into the consumptions by various user categories such as those named under question2.04.References to experience in other similar cities and critical comparisons of that experience with estimates for this city are recommended.

12,05 Provide estimates of the maximum total water consumption during any day and during any hour corresponding with the estimated design yearly water consmptions given above. Give the bases for these estimates.

12.06. Provide the general Capacity criteria used for design of the major elements of the proposed project-distribution, transmission, storage, pumping, treatment, supply elements etc. and explain the justification for these capacities. Show how the proposed major elements will be adequate for varying periods of time in the future depending on how fast the population served (12.03) grows and water demand (12.05 and 12.06) actually develop. What provisions for fire flows, if any, are made in the design of the major elements of the proposed Project? If such provisions are included, provide a study on cost versus benefits and explain how the water agency will be reimbursed for costs. Explain generally how the capacity of the major elements would be expanded in the future to accommodate future extensions and increases in water demand.

12.07. Provide the results of studies on the yield and the chemical and bacteriological quality of the various alternate sources of supply which have been considered. Explain the reasons for selecting the proposed sources and for abandoning any existing sources (if such a decision has been made). The studies should include economic comparison of alternatives where appropriate. See also question 5.02.

12.08. **Explain** whether or not there are any problems of water rights which could affect the proposed project and what arrangements, if any, have been made or are contemplated to settle water rights issues.

12.09. Provide detailed design criteria, preferably in concise tabular form, for all works to be constructed as part of the proposed project. These criteria should include those used in structural design(foundations, structural concrete, reinforcing steel, structural steel, etc.), and the basic design for all supply, treatment, transmission, distribution and storage elements (number of units, principal dimensions, volumes, optimum and peak capacities, hydraulic loadings, velocities, type of controls, type of dewatering the cleaning arrangements, feed rates, minimum sizes, friction factors, power supplies, pump types and characteristics, etc.) as appropriate to explain functional and preliminary design.

12.10. Describe the quality of the water which you intend to produce with the proposed treatment facilities. Describe the studies and experience which led to the selection of the particular design criteria used for the proposed treatment facilities. Explain if and how the quality of treated water is expected to be improved as a result of future improvements or additions to the treatment works.

12.11. Provide Preliminary plans and outline specifications for all works in the proposed project. Detailed construction plans and specifications are not required at this time. The plans and specifications submitted should be sufficiently accurate and complete to indicate the location, arrangement, elevations, and principal features of the works and to serve as the basis for sound cost estimates as requested in another question below. Foundation data obtained from borings and other suitable exploratory procedures should be included.

12.12. Describe any recent surveys and investigations of existing facilities as to capacity, condition, etc. By what standars are ecisting facilities judged in deciding whether they will be retained or abandoned? Describe the condition, capacities and other characteristics of each existing major facility which determines whether it must be abandoned or can be used in conjuction with the proposed project, with or without improvements.

12.13. Provide a simple bar chart showing your best current estimate of the construction schedule for the major sub-divisions of work on the oproposed project (for example, distribution mains, treatment works, etc). Time should be expressed in months and years from the time when financing arrangements are completed and the schedule should indicate the estimated time required to get the projectunderway after such a date.

12.14. Provide a definite program for the extension, replacement and improvement of secondary mains, installation of new connections, installation or replacement of water meters, construction off public or community watering points and sanitary facilities and all other works not included in the major project but necessary for fulfilment of the objectives of the proposed project. Include a sketch of any proposed typical public sanitary facility(for washing, bathing or toilets), if any. The program should be described including preliminary year by year scheduling of construction or installations expressed in approximate feet of pipe by size, numbers of installations, etc. The program should be realistically consistent with the rate at which such work can be accomplished. The program should be co-ordinated with data given on estimates of population served, water consumption, cost estimates and the financial forecasts provided in answer to other questions.

12.15. Give estimates of all chemical, fuel and electrical energy (also peak KW) requirements of the water works, year by year starting with the present and continuing until at least 10 years after the estimated project completion dates. Present requirements, scheduled beginning of operation of new facilities, estimated water consumption, etc., should be considered in making these estimates. Supporting data and methods used in estimating should be described in detail.

12.16. Describe quality, source and any contracts for future supply of fuel, chemicals and electrical energy. What arrangements are to be made for additional sources if necessary? provide copies of an electrical power rate schedule typical of the one under which the agency might purchase power.

12.17. Describe the estimated categories and numbers of staff and employees required by the water agency to manage and operate the water system. Give these estimates for the end of each year, starting with the present year, until 10 years after the estimated project completion date. Describe the required qualifications of staff members and skilled employees in each category and where you expect to find such staff and employees with these required qualifications. What training programs might be necessary?

12.18. Describe any plans for obtaining management and operating assistance for the water agency by consultants orotherwis

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C. Cost Estimates.

All cost estimates should be prepared on the basis of International competitive bidding for major construction contracts and major items of materials and equipment.

All cost estimates should show the date estimate was made and the date of any revisions.

Construction cost estimates should be given in sufficient detail to permit our appraisal of individual units of the proposed project- such as, any of the principal treatment plant elements, any section of pipeline, any pumping station, etc. - as may prove to be necessary.

Construction cost estimates should give quantities, the unit prices and the total cost of materials, equipment and labor or other bases used for estimating the cost of each unit of work.

All cost estimates should be broken down to show foreign exchange and local currency requirements.

The cost estimates should include detailed data on allowances made for land, water rights, spare parts, freight (including local overland to site of project), handling, taxes, duties, insurance fees, inspection fees, contingencies, price increases which may occur during the construction period, engineering supervision of construction, legal and administration costs, and all other factors which could influence final costs.

The unit prices, costs and allowances used in estimates should be fully explained as to source or bases; e.g., recent construction cost orders placed, bids received, informal information from suppliers and contractors, etc. Provide comparative data, if available, for costs on recent projects.

13.01 Give detailed construction cost estimates for the proposed project based on the preliminary plans and specifications for the project as requested elsewhere in this questionnaire

13.02 Give detailed cost estimates for the additional works not included in the main project but necessary for fulfillment of the objectives of the proposed project as described under 12.14.

13.03 Give expenditures already made or budgeted, by years and total, which are considered to be part of the project estimated under 13.01. Clearly indicate whether or not these expenditures are included in the estimates under 13.01

13.04 Give expenditures already made or budgeted, by years and total, which are considered to be part of the works estimated under 13.02. Clearly indicate whether or not these expenditures are included in the estimates under 13.02

13.05 Give complete details on the cost of planning, designing and supervising the project. Include costs and payments to date, source of funds, etc. Show bases for estimating future costs in this category which are not already described under the above estimates.

13.06 Provide an estimated schedule of expenditure, by year, for the estimated project costs given under 13.01. Give both foreign exchange and local currency expenditures. The Schedule should be subdivided to show requirements with the preliminary construction schedule requested under 12.13.

13.07 Provide an estimated schedule of expenditures, by year, for the estimated cost of additional works given under 13.02. Give both foreign exchange and local currency requirements. The schedule should be subdivided to show the requirements for the major parts of the work and should be coordinated with the program for accomplishing the work which you described under 12.14.

13.08 Give detailed estimates of the annual costs of operating and administering the system beginning now and continuing through the first 10 years after the estimated construction completion date. These estimates should correspond with the operating costs given on the Income Forecast, Annex 4, as requested under 17.02 Include sample computations for each expense category. Maintenance should include the cost of materials, equipment and maintenance labor. Salaries should include the costs of employees' benefits such as retirement, hospitalization, etc. Administration should include the costs of insurance legal services, office equipment and supplies, etc. Items under 'other' should be itemized and explained. A miscellaneous or contingency item is appropriate under 'other' Include the cost of any additional appropriate under 'other'. Include the cost of any additional management or operating assistance described under 12.18.

Estimates should be consistent with the estimates you have made for staff, chemicals, fuel and power requirements and should take into consideration estimated water and sewage flows, scheduled completion of new facilities, changes in the requirements for personnel and labour, present unit costs and reasonable allowances for future increases in unit costs (Wages, power, etc).

13.09 Give an estimate of interest during construction for loans or credits which you hope to obtain in order to accomplish this project. Indicate whether this interest will be charged to operations or capitalized.

13.10 Describe any major water supply works which you expect may be undertaken during the first 10 years after this project is completed (and which is not included in works estimated under 13.01 through 13.04). Include cost estimates and approximate dates.

D. Benefits of Projects:

14.01 Give for the last five years, any available statistics on the incidence and death rates of water or filth borne diseases in the area to be served by the proposed projects. If available provide comparable data for the country as a whole and for any areas which by comparison would indicate the possible health advantages to be derived from the proposed project. All diseases included in the statistical data should be described in relation to World Health Organization standards for classification of deseases. The limitations of the reporting procedures used to develop the statistics should be described.

14.02 Provide the reports or results of studies made by any national or international agencies on the transmission of water or filth borne diseases in your country or comparable areas.

14.03 Provide data and estimates of the loss of life and damage to property due to fire in the area to be served by the proposed water supply project during at least the last five years.

14.04 Give data on fire insurance premiums (by type of building) for the area to be served by the proposed water supply project. Give comparable premium data for areas not served and those served by various types of water supply systems. If possible give data on the total value of all properties which now have fire insurance and the total annual premiums and the degree to which such premiums might be reduced by construction of the project.

14.05 Provide data, the results of any surveys or studies, etc. on the possible savings in the cost of water service to various types of water consumers not connected to the existing public system (in the area which will be served upon completion of the proposed project) if they were to use the public system. For industries and large water users, provide the results of any survey or study of their potential as users of the proposed water supply system.

14.06 Provide any available evidence that industrial production or expansion or that the establishment of new industries has been hampered by inadequate existing water supply facilities

VI. FINANCIAL PLANNING

A. Financing Plan during the construction Period:

15.01 Give the proposed financing plan in the following form:

Sources of Funds

Proposed IDA credit or IBRD loan.	000
Other Borrowing	000
Sale of Bonds.	000
Sale of Stock.	000
Government Grants	000
Special Taxes or Assessments	000
Internal Funds*	000
Other (specify)	000
Total:	000

Requirements for Funds:

Construction Costs	000
a) Project	000
b) Other(itemize)	000
Renewals and Replacements**	000
Interest during construction	000
Repayment of existing loans	000
Taxes, if applicable	000
Working Capital***	000
Other (specify)	000
Total:	000

*"Internal funds" means cash generated from operations(net income before taxes and interest, plus depreciation), as well as the proceeds of sales of fixed assets.

**Not charged to operation (that is, not shown as expenses in the income forecast) or under Construction Costs.

***Working cash, materials and supplies and other similar current assets necessary to operate the water system.

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B. Rate Studies

16.01 Provide the results of water rate studies by which a schedule of water service rates for consumers has been established. Include the proposed rate schedule in detail. Explain when it will be put into effect and any future changes which are anticipated.

16.02 Provide a detailed breakdown of estimated water sold and revenues anticipated under the proposed new schedule (or schedules), by years, from the time the schedule (or schedules) is put into effect until 10 years after the proposed project completion date. Income for service connections, meter charges, etc. should be classified under "Other Revenues". Explain all computations.

C. Financial Forecasts

17.01 Give a detailed estimate of revenues, by years, from the present until the time when the water agency will begin making collections under the proposed new schedule of service rates. All existing taxes collected or funds provided otherwise for the operation of the system which will continue to be collected or provided for the water agency until the proposed new rate schedule is in effect should be included as "revenues from billings". Revenues for service connections, meter charges, etc. should be included under "Other Revenues". Income from land leased to others, etc. should be included under "Non-operating Income".

17.02 From the estimates provided under 13.08, 16.02 and 17.01 as well as from additional estimates which may be necessary, compute an "Income Forecast" in the form shown in Annex 4 for each year from the present until 10 years after the estimated project completion date. Give full details concerning any items not previously described including:

i. Other Revenue
ii. Interest
iii. Depreciation
iv. Other Expenses
v. Non-operating Income
vi. Taxes

17.03 From the financing plan and income forecasts, give cash flow estimates for each year from the present until 10 years after the estimated project completion date, following the form shown in Annex 3, Give full details of assumptions with respect to:

i. Sales of capital stock (if applicable), or government grant and advances.
ii. Increase in long-term debt, including government loans.
iii. Amortization of long-term debt.
iv. Increase or decrease in short-term debt.

17.04 Indicate any financing arrangements already completed. On the basis of the last balance sheet of the water agency and the foregoing forecasts; compute year-end balance sheets for the first full fiscal year following completion of construction and for the following 3 years. Give full details of assumptions with respect to overall working capital requirements, including;

i) Level of cash required to maintain operations

ii) Amount and average life of receivables to be outstanding.

iii) Inventory requirements.

iv) Amount and terms of notes and accounts payable

17.05 Describe any expected seasonal peaks in receivables and inventories, and proposed method of financing them.

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BALANCE SHEET

A S S E T S

Current Assets a/	000
Cash and equivalent b/	000
Receivables:	000
Notes Receivable	000
Accounts Receivable	000
	000
Less Reserve for Bad Debts	000
	000
Inventories:	
Chemicals	000
Pipes	000
Spare Parts and Supplies	000
	000
Others (specify)	000
	000
Other Assets (Specify)	000
Total Current Assets	000
Fixed Assets c/	
Land	000
Buildings	000
Machinery and Equipment	000
Works in Progress	000
Gross Fixed Assets	000
Less Reserve for Depreciation	000
Net Fixed Assets	000
Other Assets	
Investments	000
Other (specify)	000
Total Assets	000

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a/ Include only items which are reasonably expected to be converted into cash within the ensuing year in the ordinary course of business. Receivables, loans and securities (other than Government) not expected to be liquidated within the year should be carried under 'Investments', regardless of marketability. Materials earmarked for construction and advance payments on equipment or to contractors should be carried as Fixed Assets under 'Work in Progress'.

b/ Include short-term bank deposits and marketable Government securities.

c/ Attach to the balance sheet as at the end of the last Fiscal Year a detailed list of fixed assets, showing those whose use will be discontinued by the water agency upon completion of the project (State the estimated sale value for these fixed assets.

BALANCE SHEET

L-I A B I L I T I E S

Current Liabilities a/	
Notes Payable - trade	000
Accounts payable	000
Accrued Liabilities b/	000
Short-term Debt	000
Current Maturities of Long-term Debt c/	000
Other (specify)	000
Total Current Liabilities	000
Reserves (Specify)	000
Long-term Debt (See 10.06)	
IDA or IBRD (if applicable)	000
Other Long-term Debt	000
	000
Less Current Maturities c/	000
Equity (See 10.06)	
If applicable:	
Contribution of Administering Authority	000
Revaluation Surplus	000
Other Capital Surplus	000
Earned Surplus	000
Total Equity	000
Total Liabilities and Equity	000
Contingent Liabilities:	
Notes receivable discounted	000
Guarantees	000
Other (Specify)	000

a/ Include all items due or expected to come due within the ensuing year.

b/ Accrued expenses, interest, taxes, dividends declared etc. Itemize.

c/ Portion of long-term debt repayable within the ensuing 12 months.

ANNEX 2

INCOME STATEMENT

Water Production(Physical Volume)		000
Water Sales(Physical Volume)		000
Total bills sent out:	Number	000
	Value	000
Total bills collected:	Number	000
"	Value	000

Revenues available to agency from billings	000
Revenues from Government budgetary allocations, etc.	000
Other Revenues a/	000
Total Revenues	000
Less Operating Costs:	
Power and Fuel	000
Chemicals	000
Maintenance	000
Salaries	000
Administration	000
Other	000
Total operating Expenses	000
Less Other Expenses:	
Interest	000
Depreciation	000
Total other Expenses	000
Plus: Non-operating Income b/	000
Income before Taxes	000
Less Taxes (if applicable)	000
Net Income	000

a/ Itemize - This would include, where applicable, revenues from service connections for customers, meter charges, and similar items.

b/ Specify, such as income from land leased to others etc.

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CASH FLOW

(See 10.04)

Sources of Funds

Net Income before taxes and interest	000
Depreciation	000
Total cash generated from operations	000
Sale of Capital stock, or equity contribution (including government grants and advances)	000
Increase in long-term debt:	
IDA or IBRD - if applicable	000
Other	000
	000
Increase in short-term debt	000
Increase in other current liabilities	000
Decrease in current assets (other than cash)	000
Other (Itemize)	000
Total sources	000

Application of Funds:

Investment in fixed assets:	
The project, if applicable - foreign exchange	000
- Local currency	000
Other Construction	000
Renewals and replacements	000
Interest during construction (if capitalized)	000
	000
Interest:	
Short-term debt	000
IDA or IBRD - if applicable	000
Other long-term debt	000
	000
Amortization:	
IDA or IBRD - if applicable	000
Other long-term debt	000
Total interest and Amortization (Debt Service)	000
Taxes, if applicable	000
Dividends, if applicable	000
Decrease in short-term debt	000
Decrease in other current liabili	000
Increase in current assets (other than cash)	000
Other (Itemize)	000
Total Application	000

Cash surplus or deficit for year	000
Cash balance at beginning of year	000
Cash balance at end of year	000

INCOME FORECAST

Water Production (Physical volume)	000
Water Sales (Physical volume)	000
Total bills sent out - number	000
" - value	000
Total bills collected -number	000
value	000

Revenues from billings	000
Other revenues a/	000
Total Revenues	000
Less Operating Costs:	
Power and Fuel	000
Chemicals	000
Maintenance	000
Salaries	000
Administration	000
Other	000
Total Operating Expenses	000
Less other expenses	
Interest	000
Depreciation	000
Total Other Expenses	000
Plus Non-operating Income b/	000
Income before taxes	000
Less Taxes (if applicable)	000
Net Income	000

a/ Itemize - This would include, where applicable, revenues from connections for customers, meter charges, and similar items.

b/ Specify, such as income from land leased to others, etc.

From

The Secretary to Government of Mysore,
Public Works & Elec.Dept.

To

The Chief Engineer (General),
P.W.D., New Public Offices,
Bangalore.

Sir,

Sub: Bangalore Water Supply and Drainage Scheme - furnishing information to World Bank Authorities - Proforma questionnaire for.

Ref: Recent meeting of the Water Supply and Sanitation Control Board in presence of Prof.Thacker and Dr.SeshagiriRau

---

You are already given a copy of the questionnaire. Additional copies are sent herewith with a request to furnish the replies to the questionnaire in consultation with the Corporation Commissioner.

Yours faithfully,

Encl: 6 copies
of the questionnaire.

Secretary to Govt.,PWD

Copy to:

1. Secretary to Government, P.L.M.Dept. with 3 copies of the questionnaire.

2. Corporation Commissioner, Bangalore with 6 copies of the questionnaire.

GOVERNMENT OF MYSORE

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No PWD 32 BRA 63

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore,...5-10-...196 3.

FROM

Secretary to the Government of Mysore,
Public Works Department, Bangalore.

To The Chief Engineer (General),
Public Works Department,
New Public Offices,
BANGALORE.

Sir,

Sub:-Bangalore Water Supply and Drainage Scheme-Furnishing information to World Bank Authorities -Proforma questionnaire for.

Ref:-Recent meeting of the Water Supply and Sanitation Control Board in presence of Prof. Thacker and Dr. Seshagiri Rau

---

You were already given a copy of the questionnaire. Additional copies are sent herewith with a request to furnish the replies to the questionnaire in consultation with the Corporation Commissioner.

Yours faithfully,

Sd/-

(CHANDAPPA PATEL)
SECRETARY TO GOVERNMENT,
PUBLIC WORKS DEPARTMENT.

Encl: 6 copies of the Questionnaire.

PTO

Copy to:-

1. Secretary to Government, P.L.M.Department, with 3 copies of the Questionnaire.

2. Corporation Commissioner, Bangalore with 6 copies of the Questionnaire.

Secretary to Government,
Public Works Department.

ISSUED ON 7-10-62

PWD 112 G TW 63 /19

No. BWSS/Tech. Cl)/63-64

Office of the Chief Engineer
(General) of Mysore, Bangalore-1

To

The Secretary to Government of Mysore,
Public Works Department,
BANGALORE

Inward No. 7966
3
P.W.D. (GENERAL IRRIGATION)

Sir,

Subject:- Integrated Water Supply and Sanitation to Bangalore City:

The Technical Sub Committee of the Control Board for Water Supply and Sanitation to Bangalore, during its meeting held on 22nd 23rd and 24th September 1963 examined in detail, the work done on the above project. The various design criteria adopted were also gone into and it was found that the criteria adopted for the preparation of the Plans and Estimates were more or less in order. Certain changes which was suggested by the Sub Committee have been taken into consideration and the detailed Estimates and Plans have been prepared accordingly.

It is ascertained that in order to go to the Finance Ministry, the Planning Commission has to get the Technical Clearance from the Ministry of Health, Government of India. This question has been broadly discussed with the Deputy Director General of Public Health Engineering and the Chief, Health, Planning Commission who have agreed to scrutinise the scheme further between 3rd, and 5th October 1963 at New Delhi. For this purpose, I propose to take the Plans and Estimates with me to discuss the Technical details and get the necessary clearance from the Ministry of Health. As already reported in this office letter No. BWSS/TECH. CL/63-64 dated 25th September 1963, I am taking Shri K. V. Gundappa, my technical Assistant with me to New Delhi.

The Scheme has been prepared in three parts. Part I comprises of drawing water in the Power canal upto Netkal Balancing Reservoir from the Shivasamudram Anecut, conveying the Raw Water from Netkal Balancing Reservoir upto the Treatment works at Shimsha near the Halagur Bridge through 69" Prestressed concrete pipe, treating the entire quantity of water in Clariflocculators and Filters and pumping the Water through a rising main of 69" dia. pipes in four stages to

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To Minister
C. of G. was
informed
urgently
as decided
in the
Board's
meeting
to convey
1/10/63

DSD,
DSD
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A draft letter to G.O.I. is placed below for ord.

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the various zonal service Reservoirs located at suitable points in Bangalore. The cost of this Estimate is Rs.15.82 crores. The cost per 1000 gallons to bring the treated water upto the zonal reservoirs works out to Rs.0.94.

The second part of the scheme is for distributing the 60 MGD of water pumped into the several zonal reservoirs equitable to all parts of the town. For this purpose, the entire city area is divided into sones depending on the configuration of the locality and the population to be served in each zone. Distribution mains, Sub Mains etc., are all designed to take care of peak hour demand equivalent to 225 per cent of the average demand. For all sizes above 30" prestressed concrete pipes have been proposed and for other sizes, Cast Iron and Asbestos Cement pipes have been proposed. In the design of the Distribution system, particular care is taken to see that a minimum residual head of 30 feet is maintained at all points. For such of the extensions to be formed in future by the Trust Board authorities estimates have been prepared and included in the project, but the cost is not included as this will have to be met by the Trust Board authorities. The total cost of the distribution system mains works out to Rs.3.68 crores and the cost of water for thousand gallons for distribution only works out to Rs.0.13.

The third part of the project pertains to the re-organisation of the sewerage system and provision of sewage treatment and proper disposal. The existing sewerage system was designed over 40 years back and for a population of hardly 3.00 lakhs with a per capita supply not exceeding 20 gallons per day. The entire system therefore requires re-organisation and proper arrangements have also to be made for necessary treatment and disposal. The Major quantity of sewage from the entire city flows mainly into three major valleys, the rest flow into a number of minor valleys, the details of which have been clearly indicated in the report accompanhing estimate as well as the estimate proper. The sewerage system is designed to accommodate a total supply of 150 million gallons which is expected to be achieved by 1981. While the latterals, sub.

12 B

Sub Mains, Mains and outfall sewers are all designed for the ultimate capacity, the treatment works are proposed for the ultimate capacity, the treatment works are proposed to be constructed to take care of the population of 20 lakhs. Additional units are proposed to be added as and when necessary. The total cost of the scheme works out to Rs.6.5 crores and cost of maintenance of the sewers, Treatment and disposal works, works out to Rs.0.15 per 1000 gallons.

The total cost of the integrated water supply and Sanitation Scheme as explained above comes to Rs.26.00 crores based on complete details worked out. oft of this amount, a sum of Rs.3.00 crores is required for obtaining foreign Exchange for the purchase of high horse power pump sets, equipment for pipe laying, purchase of high tensile steel wires required for prestressed concrete and steel plates required for the steel pipe line. The cost of maintaining the entire water supply and sanitation system making due provision for the interest and capital and depreciation charges works out to Rs.1.22 per 1000 gallons on NO PROFIT AND NO LOSS BASIS. Adding a sum of another 0.03 nP. per 1000 gallons to cover the overhead charges required for the water and sewage board which ultimately has to take up the responsibility of execution and maintenance of this project, the total cost per 1000 gallons to make the scheme self-supporting in all respects works out to Rs.1.25.

I request that the Plans and Estimates may kindly be forwarded to the Secrerary, Ministry of Health, Government of India for favour of according Technical Clearance.

Yours faithfully,

1.10.63

(K.M.JOSHI),
Chief Engineer (General)

1.10.63

NO. PWD 112 GTW 63
122

D R A F T

To

The Secretary,
Ministry of Health,
Government of India,
New Delhi.

Sir,

Sub:- Integrated Water Supply and Sanitation Scheme to Bangalore city.

.....

Issued in No. PWD
Dated 1/10/63

I write to state that a comprehensive scheme for the water supply and sanitation for Bangalore city has been prepared after detailed investigation and survey. The State Government have constituted a Control Board for Water Supply and Sanitation for Bangalore city to scrutinise this project and take up execution after receiving clearance from the Government of India. The Technical Sub-Committee of the Control Board has examined the details of the earlier project, ~~and are satisfied that the project has been well prepared.~~

Present Project being semi based on the earlier project, Who

Call the important suggestion by the

During the recent visit of Prof. M.S. Thacker, Member, Planning Commission to Bangalore on 23rd Septr. the Control Board had discussion with him on this project. It was ascertained that for the Planning Commission to ~~go to~~ approach the Finance Ministry, it is obligatory to get the Technical Clearance from the Ministry of Health. In order to save some time, the State Government propose to depute the Chief Engineer (General) to go to New Delhi with the detailed Plans and Estimates and discuss with the technical officers of your Ministry. It is requested that early action may kindly be taken to give the Technical clearance for this important project.

To the point

The details of the scheme are briefly discussed below:

The scheme has been prepared in three parts. Part I comprises of drawing water in the Power canal upto Netkal Balancing Reservoir from Shivasamudram Anecut, conveying

the Raw Water from Netkal Balancing Reservoir upto the Treatment works at Shimsha near the Halagur Bridge through 69" Prestressed concrete pipe, treating the entire quantity of water in Clariflocculators and Filters and pumping the Water through a rising main of 69" dia. pipes in four stages to the various zonal service Reservoirs located at siutable points in Bangalore. The cost of this Estimate is Rs.15.82 crores. The cost per 1,000 gallons to bring the treated water upto the zonal reservoirs works out to Rs.0.94.

The second part of the scheme is for distributing the 60 MGD of water pumped into the several zonal reservoirs equitably to all parts of the town. For this purpose, the entire city area is divided into zones depending on the configuration of the locality and the population to be served in each zone. Distribution mains, Sub Mains etc., are all designed to take care of peak hours demand equivalent to 225 per cent of the average demand. For all sizes, ~~Cast~~ above 30", pre-Concrete pipes have been proposed & the others Cast Iron and Asbestos Cement pipes have been proposed. In the design of the Distribution system, particular care is taken to see that a minimum residual head of 30 feet is maintained at all points. For such of the extensions to be formed in future by the Trust Board authorities estimates have been prepared and included in the project, but the cost is not included as this will have to be met by the Trust Board authorities. The total cost of the distribution system ~~mains~~ works out to Rs.3.68 crores and the cost of water per thousand gallons for distribution only works out to Rs.0.13.

The third part of the project pertains to the re-organisation of the sewerage system and provision of ~~xx~~ sewage treatment and proper disposal. The existing sewerage system was designed over 40 years back and for a population of hardly 3.00 lakhs with a per capita supply not exceeding 20 gallons per day. The entire system therefore requires re-organisation and proper arrangements have also to be made

for necessary treatment and disposal. The Major quantity of sewage from the entire city flows mainly into three major valleys & the rest flow into a number of minor valleys, the details of which have been clearly indicated in the report accompanying estimate as well as the estimate proper. The sewerage system is designed to accommodate a total supply of 150 million gallons p.d. which is expected to be achieved by 1981. While the latterals, sub Mains, Mains and outfall sewers are all designed for the 150 M.G.D. supply ~~ultimate capacity, the treatment works are proposed for the ultimate capacity,~~ the treatment works are proposed to be constructed ~~to take care of the~~ for 90 MGD, required by 1971, when the population ~~of 20 lakhs.~~ is expected to be 2 millions. Additional units are proposed to be added as and when necessary thereafter. The ~~total~~ cost of the sewage scheme works out to Rs.6.5 crores and cost of maintenance of the sewers, Treatment and disposal works, works out to Rs.0.15 per 1,000 gallons.

When the population is expected to be 3 millions.

The total cost of the integrated water supply and Sanitation scheme as explained above comes to Rs.26.00 crores based on ~~complete~~ details worked out. Out of this amount, a sum of Rs.3.00 crores is required ~~for obtaining~~ in foreign Exchange for the purchase of high horse power pump sets, equipment for pipe laying, purchase of high tensile steel wires required for prestressed concrete and steel plates required for the steel pipe line. The cost of maintaining the entire water supply and sanitation system making due provi. for the interest ~~and~~ on capital and depreciation charges works out to Rs.1.22 per 1,000 gallons on 'no profit and no loss' basis. Adding a sum of another 0.03 NP per 1,000 gallons to cover the overhead charges required for the water and sewage board which ultimately has to take up the responsibility of execution and maintenance of this project, the total cost per 1,000 gallons to make the scheme self-supporting in all respects

works out to Rs.1.25.

Early orders in the matter is solicited.

Yours faithfully,

Secretary to Govt. P.W.&.E. Dept.

GOVERNMENT OF MYSORE

126

No. PWD 112 GTW 63

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 1st Oct... 1963.

FROM

The *Secretary to the Government of Mysore,*
Public Works & Electricity Department.

To

The Secretary to Government of India,
Ministry of Health,
New Delhi.

Issued in No. PWD
Dated 1/10/63

Sir,

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore City.

I write to state that a comprehensive scheme for the water supply and sanitation for Bangalore City has been prepared after detailed investigation and survey. The State Government have constituted a Control Board for Water Supply and Sanitation for Bangalore City to scrutinise this project and take up execution after receiving clearance from the Government of India. The present Project being sent herewith embodies all the important points suggested by the Technical Sub-Committee of the Control Board examined the details of the earlier project. The details of the scheme are briefly discussed below:

The scheme has been prepared in three parts. Part I comprises of drawing water in the Power Canal upto Hetkal Balancing Reservoir from Shivasamudram Anicut, conveying the Raw Water from Hetkal Balancing Reservoir upto the Treatment Works at Chimsha near the Jalgur Bridge through 69" Pre-stressed concrete pipe, treating the entire quantity of water in Clariflocculators and Filters and pumping the Water through a rising main of 69" diameter pipes in four stages to the various zonal service Reservoirs located at suitable points in Bangalore. The cost of this Estimate is Rs.15.82 Crores. The cost per 1,000 gallons to bring the treated water upto the zonal reservoirs works out to Rs.0.94.

The second part of the scheme is for distributing the 60 MD of water pumped into the several zonal reservoirs equitably to all

GOVERNMENT OF MYSORE

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The scheme has been prepared in three parts. Part I comprises of drawing water in the Power Canal upto Netkal Balancing Reservoir from Shivasamudram Anecut, conveying the Raw Water from Netkal Balancing Reservoir upto the Treatment Works at Shimsha near the Halgur Bridge through 63" Pre-stressed concrete pipe, treating the entire quantity of water in Clariflocculators and Filters and pumping the Water through a rising main of 69" diameter pipes in four stages to the various zonal service Reservoirs located at suitable points in Bangalore. The cost of this Estimate is Rs.16.32 Crores. The cost per 1,000 gallons to bring the treated water upto the zonal reservoirs works out to Rs.0.94.

The second part of the scheme is for distributing the 60 MGD of water pumped into the several zonal reservoirs equitably to all

parts of the town. For this purpose, the entire city area is divided into zones depending on the configuration of the locality and the population to be served in each zone. Distribution mains, Sub-Mains etc., are all designed to take care of peak hour demand equivalent to 225 per cent of the average demand. For all sizes, above 30", pre-stressed concrete pipes have been proposed and for others Cast Iron and Asbestos Cement pipes have been proposed. In the design of the Distribution system, particular care is taken to see that a minimum residual head of 30 feet is maintained at all points. For such of the extensions to be formed in future by the Trust Board authorities estimates have been prepared and included in the project, but the cost is not included as this will have to be met by the Trust Board authorities. The total cost of the distribution system works out to Rs.3.68 Crores and the cost of water per thousand gallons for distribution only works out to Rs.0.13.

The third part of the project pertains to the reorganisation of the sewerage system and provision of sewage treatment and proper disposal. The existing sewerage system was designed over 40 years back and for a population of hardly 3.00 lakhs with a per capita supply not exceeding 20 gallons per day. The entire system therefore requires re-organisation and proper arrangements have also to be made for necessary treatment and disposal. The major quantity of sewage from the entire city flows mainly into three major valleys and the rest flow into a number of minor valleys, the details of which have been clearly indicated in the report accompanying estimate as well as the estimate proper. The sewerage system is designed to accommodate a total supply of 150 million gallons per day which is expected to be achieved by 1981 when the population is expected to be 3 millions. While the latterals, sub-mains, mains and outfall sewers are all designed for this 150 M.G.D. supply, the treatment works are proposed to be constructed for 90 M.G.D. required by

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1971, when the population is expected to be 2 millions. Additional units are proposed to be added thereafter as and when necessary. The cost of this sewerage scheme works out to Rs.6.5 Crores. The cost of maintenance of the sewers, Treatment and disposal works, works out to Rs.0.15 per 1,000 gallons.

The total cost of the integrated water supply and Sanitation scheme as explained above comes to Rs.26.00 crores based on details worked out. Out of this amount, a sum of Rs.3.00 Crores is required in foreign exchange for the purchase of high horse power pump sets, equipment for pipe laying, purchase of high tensile steel wires required for prestressed concrete and steel plates required for the steel pipe line. The cost of maintaining the entire water supply and sanitation system making due provision for the interest on capital and depreciation charges works out to Rs.1.22 per 1,000 gallons on 'no profit and no loss' basis. Adding a sum of another 0.03 Np per 1,000 gallons to cover the overhead charges required for the water and sewage board which ultimately has to take up the responsibility of execution and maintenance of this project, the total cost per 1,000 gallons to make the scheme self-supporting in all respects works out to Rs.1.25.

During the recent visit of Prof.M.S.Thacker, Member, Planning Commission to Bangalore on 23rd September the control board had discussion with him on this project. It was ascertained that for the Planning Commission to approach the Finance Ministry, it is obligatory to get the Technical Clearance from the Ministry of Health. In order to save sometime, the State Government propose to depute the Chief Engineer (General) to go to New Delhi with the detailed Plans and Estimates and discuss with the Technical officers of your Ministry. It is requested that early action may kindly be taken to give the Technical clearance for this important project.

Yours faithfully,

Chandappa

(CHANDAPPA PATEL), 1/10
Secretary to Government,
Public Works & Elec.Dept.

GOVERNMENT OF MYSORE

No. PWD 112 ST W 63

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 1st Oct. 1963.

FROM

The *Secretary to the Government of Mysore,*
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To

The Secretary to Government of India,
Ministry of Health,
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Sir,

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I write to state that a comprehensive scheme for the water supply and sanitation for Bangalore City has been prepared after detailed investigation and survey. The State Government have constituted a Control Board for Water Supply and Sanitation for Bangalore City to scrutinise this project and take up execution after receiving clearance from the Government of India. The present Project being sent herewith embodies all the important points suggested by the Technical Sub-Committee of the Control Board examined the details of the earlier project. The details of the scheme are briefly discussed below

The scheme has been prepared in three parts. Part I comprises of drawing water in the Power Canal upto Vethal Balancing Reservoir from Cauvery at Kodagahalli, conveying the raw water from Vethal Balancing Reservoir upto the Treatment Works at Thimma near the Jalpur Bridge through 60" Pre-stressed concrete pipe, treating the entire quantity of water in Clariflocculators and Filters and pumping the water through a rising main of 60" diameter pipes in four stages to the various zonal service reservoirs located at suitable points in Bangalore. The cost of this Estimate is Rs.16.82 Crores. The cost per 1,000 gallons to bring the treated water upto the zonal reservoirs works out to Rs.0.94.

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-2-

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1971, when the population is expected to be 2 millions. Additional units are proposed to be added thereafter as and when necessary. The cost of this sewerage scheme works out to Rs.6.5 Crores. The cost of maintenance of the sewers, Treatment and disposal works, works out to Rs.0.15 per 1,000 gallons.

The total cost of the integrated water supply and Sanitation scheme as explained above comes to Rs.26.00 crores based on details worked out. Out of this amount, a sum of Rs.3.00 Crores is required in foreign exchange for the purchase of high horse power pump sets, equipment for pipe laying, purchase of high tensile steel wires required for prestressed concrete and steel plates required for the steel pipe line. The cost of maintaining the entire water supply and sanitation system making due provision for the interest on capital and depreciation charges works out to Rs.1.22 per 1,000 gallons on 'no profit and no loss' basis. Adding a sum of another 0.03 Np per 1,000 gallons to cover the overhead charges required for the water and sewage board which ultimately has to take up the responsibility of execution and maintenance of this project, the total cost per 1,000 gallons to make the scheme self-supporting in all respects works out to Rs.1.25.

During the recent visit of Prof. C.S.Thacker, Member, Planning Commission to Bangalore on 23rd September the control board had discussion with him on this project. It was ascertained that for the Planning Commission to approach the Finance Ministry, it is obligatory to get the Technical Clearance from the Ministry of Health. In order to save sometime, the State Government propose to depute the Chief Engineer (General) to go to New Delhi with the detailed Plans and estimates and discuss with the Technical officers of your Ministry. It is requested that early action may kindly be taken to give the Technical clearance for this important project.

Yours faithfully,

(CHANDAPPA PATEL),
Secretary to Government,
Public Works & Elec.Dept.

/30

No. PHG/LRWS/18-IV/63-64

Office of the Chief Engineer
(General) of Mysore, Bangalore-1

11 OCT 1963

To

The Secretary to Government of Mysore,
Public Works Department,
BANGALORE

Sir,

Subject:- Integrated Water Supply and Sanitation Scheme to Bangalore City:

Reference:- Your letter No. 112 CW 63 dated 1-10-1963 addressed to the Ministry of Health, Government of India, New Delhi -

MYSORE GOVERNMENT SECRETARIAT
TAPPAL SECTION
14 OCT 1963
SECTION
PUBLIC WORKS DEPARTMENT

With reference to the above, I write to state that your letter addressed to the Secretary to Government, Ministry of Health along with Plans and Estimates amounting to Rs.26.00 Crores for the above work were personally handed over to the Ministry on 3-10-1963, who in turn referred them to the Central Public Health Engineering Organisation for Technical Clearance. The details of the project were discussed with the Central Public Health Engineering Organisation and they were satisfied that the Scheme details have been drawn up after adequate field surveys and Enginnering analysis of relevant data. The Ministry of Health recommended to the Planning Commission on 4-10-1963 to accord approval to the Scheme for Rs.25.00 Crores, as it is likely that the cost of the Scheme may undergo slight alterations after competitive offers are received for the major components and a decision is taken on the pipes to be adopted and the number of pumping stations to be provided on the rising main.

After it was referred to the Planning Commission, I had discussions with the Chief Health, Planning Commission regarding the further action to be taken in this regard. The Chief Health, Planning Commission, promised to process it further through the Ministry of Finance, as necessary Technical Clearance had by then been received from the Ministry of Health. Prof. M.S. Thacker, whom also I met on 6th after his return from tour promised very sympathetic consideration.

The phasing of the project was fixed tentatively as under after discussing with the Chief Health, Planning Commission and a representative of Central Public Health Engineering Organisation.

p.t.o.

14

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Year	Water Supply	Distribution	Drainage	Total
	(Rupees in Crores)			
1963-64	0.10	0.25	0.15	0.50
1964-65	1.00	0.50	0.50	2.00
1965-66	2.00	1.00	0.50	3.50
				6.00
1966-67	4.00	1.00	1.00	6.00
1967-68	4.00	0.93	2.07	7.00
1968-69	4.22	-	1.78	6.00
Rs.	15.32	3.68	6.00	25.00

The State Government deputed me to get the Clearance from the Ministry of Health and I am glad to report that the Clearance has been secured.

Yours faithfully,

(K.M.JOSHI),
Chief Engineer(General)

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PHG/LRWS/B-II/63-64

Office of the Chief Engineer
(General) of Mysore, Bangalore-1

11 OCT 1963

To

The Secretary to Government of Mysore,
Public Works Department,
BANGALORE

Sir;

Subject:- Integrated Water Supply and Sanitation Scheme to Bangalore City:

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				6.00
1966-67	4.00	1.00	1.00	6.00
1967-68	4.00	0.93	2.07	7.00
1968-69	4.22	-	1.78	6.00
Rs.	15.32	3.68	6.00	25.00

The State Government deputed me to get the Clearance from the Ministry of Health and I am glad to report that the Clearance has been secured.

Yours faithfully,

(K.M.JOSHI),
Chief Engineer(General).

N O T E.

Sub: Integrated Water Supply and Sanitation Project of Bangalore City

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1) Mysore State Government in letter No.PWD 1126 TW 63 dated 1st October 1963 forwarded to the Secretary to the Government, Ministry of Health, Government of India, a comprehensive scheme amounting to Rs.26.00 crores, for technical clearance.

2) The Ministry of Health, in their U.O. file No.1-MYS/62-P dated 3rd October 1963, referred the project to the Central Public Health Engineering Organisation for technical scrutiny and comments.

3) The Deputy Director-General, Public Health Engineering of the Central P.H.E. Organisation, retransmitted the U.O.File in his No. DGHS-U.O. 5-4/62-PHE dated 3rd October 1963 with the recommendation that approval may be accorded for the scheme for a total estimated cost of Rs. 25.00 crores ~~approximately~~.

4) The Ministry of Health recommended to the Planning Commission on 4-10-1963 that approval may be accorded for the Integrated Water Supply and Sanitation Project of Bangalore City at a cost of Rs.25.00 crores and that the money for the scheme would have to be found outside the Plan ceiling.

5) It is ascertained that the project is still with the Planning Commission.

Rural Water Supply

An estimate amounting to Rs.8.00 crores has been ~~prepa~~ prepared to provide drinking water supply for about 7,000 villages situated in scarcity and difficult areas in Mysore State.

A preliminary report has been sent to the Government of India (Central P.H.E. Organisation) to sanction the project and provide funds.

The subject was discussed by the Chief Engineer (General) with the Deputy Director-General (PHE) of Central P.H.E. Organisation who is also a Member of the Drinking Water Board. It was ascertained that a preliminary report on the rural water supply was under finalisation and it was likely that some money may be given to the Mysore State as the State was ready to implement the programme.

BANGALORE WATER SUPPLY AND SANITATION PROJECT

A comprehensive scheme for supplying 60 M.G.D. of water from Cauvery to Bangalore City inclusive of distribution and drainage amounting to Rs.26 Crores was sent to the Union Health Ministry. They have recommended to Planning Commission to sanction the Scheme for Rs.25 Crores, since they anticipate some probable saving as a result of competitive bids. The Planning Commission is further processing the case with Union Finance Ministry. This may please be pursued with Planning Commission and Union Finance Ministry, so as to expedite their approval & allotment of funds (Rs. 50 lakhs for 63-64)

=========

RURAL WATER SUPPLY SCHEME

An estimate for Rs.8 Crores for providing suitable Drinking Water to 7000 villages in Mysore State situated in scarcity affected and difficult areas, has been sent to Health Ministry. During discussions with Chief Engineer (General), Shri Raja Gopalan, the Deputy Director (General), PHE, of Central Health Ministry who is also a member of the Drinking Water Board, is reported to have indicated that the matter is about to be finalised and Mysore State might be given some money to implement the programme. This matter may please be pursued with the Union Health Ministry.

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S. G. Balekundry 24/10/63

S. G. BALEKUNDRY,
Officer on Special Duty,
Public Works Department

BANGALORE WATER SUPPLY AND SANITATION PROJECT

A comprehensive scheme for supplying 60 M.G.D. of water from Cauvery to Bangalore City inclusive of distribution and drainage amounting to Rs.26 Crores was sent to the Union Health Ministry. They have recommended to Planning Commission to sanction the Scheme for Rs.25 Crores, since they anticipate some probable saving as a result of competitive bids. The Planning Commission is further processing the case with Union Finance Ministry. This may please be pursued with Planning Commission and Union Finance Ministry. So as to expedite their approval & allotment of funds (Rs. 50 lakhs for 63-64)

=========

WATER SUPPLY SCHEME

The World Bank Team is likely to visit Bangalore during the 2nd week of December in connection with the Bangalore water supply scheme. The questionnaire of World Bank handed over to us by Prof. M.S. Thacker was sent to the C.E (Yld). Replies to questionnaire received from the C.E (Yld) are being placed before the Technical Subcommittee at its meeting to be held on 5-12-63.

24/10/63

S. G. BALEKUNDRY,
Officer on Special Duty,
Public Works Department.

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D.O. No. ME/PS/63-1335

PLANNING COMMISSION
NEW DELHI

No. M. 2028

October 15, 1963

SECRETARIAT SPECIAL SECTION 29 OCT 1963 SECTION PUBLIC WORKS DEPARTMENT
OFFICE OF THE CHIEF MINISTER 17 OCT 1963 BANGALORE
SECRETARIAT PUBLIC WORKS & ELEC. DEPTT. No. 2
OFFICE OF THE OFFICER ON SPECIAL DUTY No. 25 OCT 1963 P.W.D. SECRETARIAT

Dear Shri Nijalingappa,

When I was in Bangalore last month, we had discussed the question of World Bank financing for the Bangalore Water Supply Project. A Bank Team has now arrived in India to make an appraisal of the Emergency Water Supply Scheme for Calcutta and they have expressed interest in having a preliminary look at the Bangalore Water Supply Scheme.

I have explained to them the broad outlines of the Scheme and the various measures which your Government has been taking to ensure that the Scheme is technically sound and the organisation for implementing it is adequate. It will, however, take some time before the scheme is ready for a full-fledged appraisal by the World Bank and at the present stage the Bank Team would be interested only in acquainting itself with Bangalore's water supply and sanitation needs and the scheme which is being drawn up for meeting them.

As you are aware, the Bank will consider financing the Water Supply and Sanitation Scheme for Bangalore only after the necessary organisation for implementing the scheme is set up and provided the scheme can meet the fairly strict criteria of technical and economic soundness, which the Bank and the International Development Association apply to their lending. No doubt, you will be doing whatever is necessary to ensure that the scheme is ready for appraisal at least by early next year.

I thought of writing to you because I am anxious that even at this preliminary stage the Bank Team should have a favourable impression of the project, which would mean so much for the growth and prosperity of Bangalore. If it is possible, you may perhaps like to give some time to the Bank Team, or, if you are out of Bangalore, you may like to ask one of your senior colleagues to meet the Team.

Sey may like to do so

Sey.

Sey.

Fm 31-5-1/63

Let me meet the C.E. (Gen) the Corp'n Comm'r & the Chairman of the Corp'n Engineer concerned

17/10/63

The meeting took place. It was decided to write to Sri Rajagopalan (Delhi) requesting him to pay a visit to B'lore to brief us and again accompany the World Bank Team during their visit.

O.S.D. (PWD)

There was some
questionnaire
given to us
for getting
some information
pl. check up
whether the
same is
being attended
to

Ch
25/10

xxx
29/10

Pl. bring up
29/10

सत्यमेव जयते

D.O. No. ME/PS/63-1335
October 15, 1963

PLANNING COMMISSION 35
NEW DELHI

The date of the Team's visit to Bangalore has not yet been decided, but I expect it will be some time next month. I would have myself liked to be in Bangalore at the time when the Team was there; but I am leaving for London and Washington tomorrow. I am, therefore, asking Shri C.S. Krishnamoorthi or Shri S.S. Marathe of the Department of Economic Affairs, who deal with World Bank matters, to see if he could go to Bangalore when the Team is there. He would also inform your people as soon as the dates of the Team's visit are finalised.

With best regards,

Yours sincerely,

(M.S. Thacker)

Shri S. Nijalingappa,
Chief Minister,
Government of Mysore,
Bangalore.

The State Government have already taken a firm decision to set up an Atonomous Statutory Body Water and Sewage Board to deal with --

1) Execution of the Long Range Water Supply Scheme (including distribution and drainage);

2) For taking over and maintaining the system when the scheme has been executed.

This Board will supply water to consumers at cost. The cost - will include the cost of maintenance of the drainage scheme also.

The constituion of such a Board has been held up pending anactment of the necessary legislation. The State Government have had taken a decision to sponsor such a legislation in the State Legislature. However, it was found after detailed examination that such a Board would amount to a trading corporation and consequently such a legislation fell within the purview of the Parliament. Accordingly a recommendation was made to the Union Health Ministry to sponsor such a legislation in the Parliament. The Union Health Ministry in consultation with the Union Law Ministry advised this State Government that the proposed legislation was within the competence of the State Legislature. However as the State Government was not satisfied with the case has been examined in detail with specific reference to a number of cases by the State Advocate-General. Back reference had been made to the Union Health Ministry seeking confirmation of the fact that all the points raised by the State Advocate-General have been duly considered by the Union Government in tendering the advices that such a legislation could be undertaken by the State Legislature.

Pending the constitution of such a statutory Boa

the State Government have constituted a Control Board inter alia the Chief Minister as the Chairman and the Ch Minister for P.W., the Minister for Municipal Admn., the Minister for Finance and the concerned Secretaries to Govt., the Chief Engineer, the Mayor of the Corporation of the City of Bangalore as members. This Control Board is expected to take all important decisions regarding sanctions or obtaining loans etc. The State Govt. have also taken a decision to appoint a very senior Administrative Officer to be in charge of this Project. Hence, no delay far in taking any decisions or in the execution is expected even though there may be some delay in setting up the Water and Sewage Board.

Pending execution of the scheme, the State Govt. have also taken a decision to take over the running of the Water Supply Distribution and Sewage system from the City Corporation. It is expected that necessary amendments to the City of Bangalore Corporation Act will be enacted by the State Legislature during its ensuing Session in December 1963.

A Technical Sub-Committee consisting of even some outside experts like Sri M.V. Modak has also been set up and all technical matters relating to the scheme will be thrashed out by this Sub-Committee. Consequently no delay in taking a decision even on technical matters is

Parappa, B.E., M.[redacted]
Deputy Secretary to Government,
Works Department (Irrigation)

Bangalore, dated. [redacted]

D.O. No. PWD 32 BRA 63

Dear Sir,

Sub:- Bangalore Water Supply and Drainage Scheme - furnishing information to World Bank Authorities - Proforma Questionnaire for.

..

Ref:- This office letter No.PWD 32 BRA 63 dated 5-10-1963.

.....

With reference to the above Questionnaire, I am sorry to inform you ~~you~~ ~~ha~~ that you have not yet furnished reply thereto eventhough it was made clear by Professor M.S. Thacker that you have got to be prepared to face a World Bank Team some-where in the month of November. I have to request you therefore to send the replies within three days.

Yours sincerely,

Shri K.M. Joshi,
B.Sc., B.E., M.I.E.,
Chief Engineer (General),
Bangalore-1.

Please supply fair T.S. 11/11/63

You are also requested to be ready for discussion on various points connected with this subject with the concerned officers when you visit Delhi for plan meeting.

IMMEDIATE 138

K.B.MURARAPPA,B.E.,M.C.E.,(USA),
Deputy Secretary to Government,
Public Works Department (Irrigation).

Mysore Government Secretariat
Vidhana Soudha,

Bangalore,dated 11 November,1963.

D.O.No.PWD 32 BRA 63.

Dear Sir,

Sub:-Bangalore Water Supply and Drainage Scheme -furnishing information to World Bank Authorities-Proforma Questionnaire for.

Ref:-This office letter No.PWD 32 BRA 63 dated 5-10-1963.

With reference to the above Questionaire, I am sorry to inform you that you have not yet furnished reply thereto eventhough it was made clear by Professor M.S. Thacker that you have got to be prepared to face a World Bank Team somewhere in the month of November. I have to request you therefore to send the replies within three days. You are also requested to be ready for discussion on various points connected with this subject with the concerned Ministry when you visit Delhi for plan Meeting.

Yours sincerely,

Shri.K.M.Joshi,B.Sc.,B.E.,MIE.,
Chief Engineer(General)of Mysore,
Bangalore-1.

ncj/d.111163.

ISSUED ON 11-11-63

K.B. Murarappa, B.E., M.C.E. (USA),

139

Novr. 11/11/63

PWD 32 BRA 63

Dear Sir,

Sub:- Bangalore Water Supply and Drainage Scheme - furnishing information to World Bank Authorities - Proforma Questionnaire for.

Ref:- This office letter No.PWD 32 BRA 63 dated 5-10-1963.

.....

With reference to the above Questionnaire, I am sorry to inform you that you have not yet furnished reply thereto eventhough it was made clear by Professor M.S. Thacker that you have got to be prepared to face a World Bank Team some-where in the month of November. I have to request you therefore to send the replies within three days.

Yours sincerely,

Shri K.M. Joshi,
B.Sc., B.E., M.I.E.,
Chief Engineer (General),
Bangalore-1.

ISSUED ON 11-11-63

No. DHD/7462/W.S.D.S/63-4

ce of the Chief Engineer (General)
P.W.D., Fa. No. 40, Bangalore-1.

Dated Nov. 1963.
14 NOV 1963

To

The Secretary to Government,
Public Works Department,
Bangalore.

Sir,

Sub: Bangalore Water Supply & Drainage Scheme - Furnishing information to World Bank Authorities - Proforma questionnaire for -

Ref: Your letter No.PWD 32 BRH 63 dated 1-11-1963 and D.O. letter dated 11-11-1963.

With reference to your letter cited above, I write to state that replies to the Proforma questionnaire will have to be placed before the Water Supply Control Board and their concurrence obtained. This is going to be placed before the next meeting of the committee. I suggest that the Secretary Water Supply Control Board, may be addressed in the matter.

OFFICE OF THE OFFICER ON SPECIAL DUTY
No. 355
15 NOV 1963
P.W.D. SECRETARIAT

Yours faithfully,
Sd.
(K.M. Joshi)
Chief Engineer (Gl).

aja.14.11

p.t.o.

Copy forwarded to the Secretary, Water Supply Control Board, for information and needful.

For Chief Engineer (Hydl).

141

Sri G. V. Venkata Ramu,
Superintending Engineer (Designs).

D.O.No. BWSS/63-64

Office of the Chief Engineer
(General), P.W.D. Offices,
Bangalore, dated -11-63.
18 NOV 1963

Dear Sri Balekundry,

Sub: Questionaire on Bangalore Water Supply Project by the International Development Association.

I forward herewith one copy of the draft replies to the Questionaire issued by the International Development Association on the integrated water supply & Sanitation Project for Bangalore. Copies of the draft replies are sent to Sri N.V. Modak and Sri H. Ananthachar, Separately from this office for ~~next~~ their comments. The - subject may please be included in the agenda for the - meeting of the Technical Sub Committee to be held on the 5th December 1963.

Yours sincerely,
(G.V. Venkata Ramu) 18/11

Sri S.G. Balekundry,
Secretary,
Water Supply & Sanitation
Control Board,
Vidhana Soudha,
Bangalore.

MG.3/.18.11.

18/11

OFFICE OF THE OFFICER ON SPECIAL DUTY
No. 356
18 NOV 1963
P.W.D. SECRETARIAT

CHANDAPPA PATEL, I.A.S.,
Secretary to Government,
Public Works & Elec.Dept.

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, dated, 19. 11. 1963.

D.C.No.PWD 32 BRA 63

Dear Shri Joshi,

Sub: Bangalore Water Supply & Drainage Scheme - Furnishing information to World Bank Authorities - Proforma questionnaire for -

---

Ref: i) This office letter No.PWD 32 BRA 63 dated 5.10.1963.

ii) T.O. letter of even number dated 11.11.1963.

iii) Your No.DHD/7462/W.S.D.S./63-4 dated 14.11.1963.

With reference to your letter dated 14.11.1963, I am directed to inform you that it is the Government who decides the subjects to be brought before the Control Board. Therefore it would have been more proper if you had complied with the Government letters instead of suggesting that Government should approach the Secretary, Water Supply and Sanitation Control Board.

Yours sincerely,

Ch 20/11

(Chandappa Patel)

19/11/63

Shri K.M.Joshi,
Chief Engineer (General),
Bangalore.

CHANDAPPA PATEL, I.A.S.,
SECRETARY TO GOVERNMENT
PUBLIC WORKS & ELECY.DEPTT.

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, dated, 20-11-1963.

D.O.No.PWD 32 BRA 63

Dear Sri.Joshi,

Sub: Bangalore Water Supply and Drainage Scheme- Furnishing information to World Bank Authorities - Proforma questionnaire for-

---

Ref: i) This office letter No. PWD 32 BRA 63 dated 5-10-1963.

ii) This Office letter of even number dated 11.11.1963.

iii) Your No.DHD/7462/W.S.D.S./63-4 dated 14-11-1963.

With reference to your letter dated 14-11-1963, I am directed to inform you that it is the Government who decides the subjects to be brought before the Control Board. Therefore it would have been more proper if you had complied with the Government letters instead of suggesting that Government should approach the Secretary, Water Supply and Sanitation Control Board.

Yours sincerely,

O/c

Sri. K.M. Joshi, B.Sc., B.E.,
Chief Engineer (General),
Bangalore.

ISSUED ON 24-11-63

No.PWD 52 BRA 63

To

The Secretary to Government of India,
Ministry of Health,
New Delhi.

Sir,

Sub:-Long Range Water Supply Scheme to Bangalore City.

Ref:-Correspondence ending with D.O. letter No.PWD 141 GTW 62, dated 10-6-1963 from the Joint Secretary to Government of Mysore, Public Works Department.

~~I am directed to state that it is learnt~~ It is learnt from C.E. Mysore that ~~that~~ the Ministry of Health and Planning Commission have technically cleared the Project for supplying 60 M.G.D. of water from Cauvery to Bangalore. I am Directed to inform you that it is felt very essential to take up the scheme early, to avoid any crisis due to ~~shxx~~ shortage of drinking water supply to the Bangalore City's growing population.

I am therefore to request you kindly to permit us to go ahead with the execution of the Scheme with a provision of Rs. 50 lakhs for preliminaries during the year 1963-64, pending formal communication of clearance of ~~sh~~heme from the Government of India.

Yours faithfully,

D/s.to Govt.
P.W.D.(R)

Copy to:- 1) The Secretary, Planning Commission, New Delhi.
2) Dr. M.A.N. Iyengar, Chief (Health) Planning Commission, New Delhi.
3) Private Secretary to Prof. M.S. Thacker Member, Planning Commission, New Delhi.

D/s to Govt
Proc(I)

No.PWD 32 BRA 63 dated 7-12-1963

From

The Secretary to the Government of Mysore,
Public Works & Electricity Department

To

The Secretary to the Government of India,
Ministry of Health,
NEW DELHI.

Sir,

Sub:- Long Range Water Supply Scheme to Bangalore City.

Ref:- Correspondence ending with D.O.letter No.PWD 141 GTW 62, dated 10-6-1963 from the Joint Secretary to Government of Mysore, Public Works Department,

It is learnt from the Chief Engineer, Mysore, that the Ministry of Health and Planning Commission have technically cleared the Project for supplying 60 M.G.D. of water from Cauvery to Bangalore. I am directed to inform you that it is felt very essential to take up the scheme early, to avoid any crisis due to shortage of drinking water supply to the Bangalore City's growing population. I am therefore to request you kindly to permit us to go ahead with the execution of the Scheme with a provision of Rs.50 lakhs for preliminaries during the year 1963-64, pending formal communication of clearance of Scheme from the Government of India.

Yours faithfully,

sd/-

(K. B. Murarappa)
Deputy Secretary to Government,
Public Works Department (I).

Copy to: 1) The Secretary, Planning Commission, New Delhi,
2) Dr.M.A.N.Iyengar, Chief (Health) Planning Commission, New Delhi,
3) Private Secretary to Prof.M.S.Thacker, Member, Planning Commission, New Delhi.

ISSUED ON 7-12-1963

Deputy Secretary to Governmen
P.W.D.(I).

DR.M.A.N.IYENGAR,
ASSTT.CHIEF(HEALTH)

D.O.No. HLH 16(8)/60

योजना आयोग
नई दिल्ली
PLANNING COMMISSION
NEW DELHI

December 18,1963.

Dear Shri Chandappa Patel,

Please refer to your letter No.PWD 32 BRA 63 dated 7-12-1963 regarding the long range water supply scheme to Bangalore city, requesting for a provision of Rs.50 lakhs for preliminaries during the year 1963-64, pending formal communication of clearance of Scheme from the Government of India. In this connection you may recall the conversation we had at Bangalore recently wherein it was desired that you may further clarify the position as to the ability for utilizing this amount within the current financial year. Unless details in this regard are forwarded, it would be difficult to consider the request further

Also I had mentioned about the Mangalore Water Supply & Drainage Scheme for augmentation of the water supply programme. It was mentioned that this scheme was under scrutiny in the Finance Department, Government of Mysore. It is requested that this scheme may also be expedited in consultation with Shri Mathias, the Secretary, Finance Department.

Yours sincerely,

(M.A.N.Iyengar)

Shri Chandappa Patel,
Secretary,
Public Works & Electricity Department,
Mysore Government Secretariat,
Vidhana Soudha,
BANGALORE.

147

D.O. No.PWD 32 BRA 63

Dear Shri Joshi,

Subject:-Long Range Water Supply Scheme to Bangalore City.

I am desired to enclose herewith copies of Government letter No.PWD 32 BRA 63, dated 7-12-1963 addressed to the Secretary to Govt. of India, Ministry of Health and the reply received from Dr. M.A.N. Iyengar, Assistant Chief (Health), Planning Commission, regarding provision of Rs.50.00 lakhs for preliminaries during the year 1963-64. I request you kindly to forward detailed proposals to this office for utilising Rs.50.00 lakhs during the current year i.e. 1963-64, by return of post.

Yours faithfully,

(Chandappa Patel)

Shri K.M. Joshi,
Chief Engineer (General),
Bangalore.

No.PWD 32 BPA 63

To

The Secretary,
Planning Commission,
New Delhi.

Sir,

I am directed to invite reference to this Government letter of even number dated 7.12.63 addressed to the Ministry of Health, GOI. and copy endorsed to you on the above subject and to state that during the discussion with the World Bank Team and with Prof. M.S. Thackar, when they were here recently, it was agreed, that this Government should proceed with preliminary works, such as, purchase of pipes required for distribution system. The Mysore Iron & Steel Works, Bhadravati have intimated this Government that pipes of various sizes costing over a crore of rupees are available for ready delivery. If this Govt. do not purchase them in time, it will be very difficult to get them later on. The fact was also discussed with the World Bank Team and this Govt. agreed to purchase these pipes straig away. I am therefore to request you kindly to allocate a sum of atleast Rs.50 lakhs for this purpose. The amount so allocated will be utilised by the end of this financial year for purcha ing the pipes.required for the water supply scheme of Bangalore.

The favour of an early reply is requested.

Yours faithfully,

Deputy Secretary to Govt.
PWD (Irrigation)

Copy to the Secretary, Govt. of India. Ministry of Health New Delhi.

Copy to the Chief Engineer (G), Bangalore.

Copy to the Private Secretary to Prof. M.S.Thacker,
Planning Commission, New Delhi.

Deputy Secretary,
PWD (Irrigation)

dtlw

150

GOVERNMENT OF MYSORE

FD 32 DPA 63.

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,
Dated, Bangalore, 30th Decr. 1963.

FROM

Secretary to the Government of Mysore,
Public Works Department.

To

The Secretary,
Planning Commission,
New Delhi.

Sir,

Sub: Long Range Water Supply Scheme to Bangalore City.

***

I am directed to invite reference to this Government letter of even number dated 7/12/63 addressed to the Ministry of Health, Government of India, and copy endorsed to you on the above subject and to state that during the discussion with the World Bank Team and with Prof.M. . Thacker when they were here recently, It was agreed, that this Government should proceed with preliminary works, such as, purchase of pipes required for distribution system. The Mysore Iron & Steel Works, Bhadravathi have intimated this Government that pipes of various sizes costing over a crore of rupees are available for ready delivery. If this Government do not purchase them in time, it will be very difficult to get them later on. The fact was also discussed with the World Bank Team and this Government agreed to purchase these pipes straight away. I am therefore to request you kindly to allocate a sum of atleast Rs.50 lakhs for this purpose. The amount so allocated will be utilised by the end of this financial year for purchasing the pipes required for the water supply scheme of Bangalore.

The favour of an early reply is requested.

Yours faithfully,

Sd/-
(K.S.Narayanappa),
Deputy Secretary to Government,
Public Works Department, (Irrigation).

P.T.O.

Copy to the Secretary to Government of India, Ministry - of Health, New Delhi.

Copy to the Chief Engineer, (General), Bangalore.

Copy to the Private Secretary to Prof.M.S.Thacker, Planning Commission, New Delhi.

(K.B.Murarappa),
Deputy Secretary to Government,
Public Works Department, (Irrn).

Issued
Dated 30/12

O/C

Dr.M.A.N.Iyengar,
Asstt.Chief(Health)

D.O.No. H.LH.16(8)/60

PLANNING COMMISSION
NEW DELHI

7/4 January ,1964.

Dear Shri Chandappa Patel,

Subject: Long Range Water Supply Scheme to Bangalore City.

In connection with Shri Murarappa's letter No.PWD 32 BPA 63. dated 30th December,1963, addressed to the Secretary, Planning Commission, it will be recalled that during the discussions held in Mysore, when the representatives of the World Bank were present, it was mentioned by Prof.Thacker that the proposal for the Long Range Water Supply Scheme to Bangalore City was still under consideration in consultation with the Ministry of Finance to whom reference had been made by the Health Ministry. As soon as the final acceptance from the Finance Ministry is obtained the Government of Mysore will be informed of the same when the question of proceeding with the purchase of pipes etc. required for the scheme could be pursued. The information already asked for in this office D.O.letter of even number dated 18th December,1963, may also kindly be supplied at an early date so as to facilitate the Planning Commission in getting the requisite sanction for incurring the expenditure indicated for the year 1963-64.

Yours sincerely,

(M.A.N.Iyengar)

Shri Chandappa Patel,
Secretary,
Public Works & Electricity Department,
Mysore Government Secretariat,
Vidhana Soudha,
BANGALORE.

MYSORE GOVT. SECRETARIAT
No. 21/SD/8 Pl 64
9 JAN 1964
P.W.D. (EX)

152

File No. of 196

Mysore Government Secretariat

Serial No.

7) The letter dated 30-11-63 was not issued from this section. It might have been issued from the Spl. Irrigation Section under this section. Hence no. Spl. Irrigation section may kindly verify.

13/1/64

It is since ascertained that the concerned file is in Spl Irrigation section. Hence this may be returned to D/S (ce)

13/1/64

For immediate action.

I remember a letter was addressed to C.E. (G.) to furnish details about the Rs. 50 lakhs to be spent in 63-64.

13/1/64

D.S. (I.)

OFFICE OF THE OFFICER ON DUTY
No 28
13 JAN 1964
P.W.D. SECRETARIAT

Serial No.

4) This is a letter issued from the GSD's Office. The Correct file No. is PWD 32 BRA 63. This reference may kindly be referred to G.S.D to put up the papers for reference by the Secy.

9.1.64

5) 9/1/64

9.1.64

6) Put up file 9/1/64

Note.—Contn. Sheet

15 1(

NOTE ON BANGALORE WATER SUPPLY SCHEME.

A Comprehensive Scheme costing Rs.26 crores for Water Supply Distribution and Sanitation for Bangalore has been sent to Government of India on 1st October 1963. Sanction thereto is under consideration of Government of India.

In the meanwhile the Control Board established for execution of this Scheme has scrutinised the scheme and approved the same. The draft tender papers for pipe line have been scrutinised by the Control Board and the same are being finalised. However, tender notice will be issued only after World Bank finally approves the Scheme as suggested during their last visit in December 1963.

Plan we discuss

CL

16/1

The World Bank Authorities visited Bangalore in December 1963 and had a preliminary look at the Projec and replies to their questionnaire. They have promised to come again in February 1964.

OSD

T65

Government of Mysore have approached the Planning Commission to sanction Rs.50 lakhs to be spent in 63-64 on preliminaries and purchase of pipes from Bhadravati for distribution mains. All the details required in this regard have also been furnished.

The Mayor, Bangalore Corporation, has intimated the Control Board that the Corporation have passed a resolution that the Water Supply and Sanitation Divi now under the Corporation may be taken over by the P. on an agency basis pending enactment of a Parliament in regard to the formation of Water Boards. P.L.M. Department have been requested to take necessary step in this regard.

14.1.64

(S.G.Balekundry)
Officer on Special Duty, P.W.D

State Govt. ~~engages~~ head within
a project

~~Housing programme~~

~~L.C. Cooper~~

No.PHG/Br.I/LWS/63-64. Dated 14-1-1964

The Secretary to Govt. of Mysore,
Public Works Department,
Bangalore.1

Sir,

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore - Programme of works for the year 1963-64 under 94 Capital Outlay.

With reference to the enquiry over phone by Sri.K.B. - Murarappa, Deputy Secretary to Government, Public Works Department regarding the above, I enclose herewith a programm of works for the year 1963-64 for a sum of Rs.50 lakhs.

If this amount is to be spent before the end of - March 1964, it is necessary that orders for the pipes should be placed atleast within a week's time.

I therefore, request orders of Government early, so that prompt action can be taken to spend this amount of Rs.50 lakhs, if allotted.

Yours faithfully,

14.1.64

(K. M. Joshi)
Chief Engineer (General) P.W.D.

OSD 14/1

Msr/14-1

14.1.64

INTEGRATED WATER SUPPLY AND SANITATION SCHEME TO BANGALORE

Programme of works for the year 1963-64 under "94 Capital OUTLAY"

	Item of works	Amount required for 1963-64
		Rs.
1)	Acquisition of land at the Treatment site near Torekadanahalli, intermediate pumping Stations and pipe lines.	1,00,000
2)	Purchase of pipes of 4" dia. to 12" size for the distribution system.	45,00,000
3)	Acquisition of land for service reservoirs in Bangalore and construction of quarters for Operating Staff.	75,000
4)	Purchase of R.C.C. Hume pipes for the Outfall sewers.	1,00,000
5)	Acquisition of lands for the sewage treatment site at the outskirts of Bangalore and construction of quarters for staff (members)	75,000
6)	Construction of Administrative buildings, Stores and garage at Bangalore.	50,000
7)	Establishment charges	75,000
8)	Contingencies.	25,000
	Total	50,00,000

Rupees Fifty lakhs only.

(K.M.Joshi)
Chief Engineer (General) PWD

Msr/

154

No.PHG/Br.I /L.R.WS/63-64. Dated 14-1-1964

The Secretary to Govt. of Mysore,
Public Works Department,
Bangalore.1

Sir,

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore - Programme of works for the year 1963-64 under 94 Capital Outlay.

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If this amount is to be spent before the end of - March 1964, it is necessary that orders for the pipes should be placed atleast within a week's time.

I therefore, request orders of Government early, so that prompt action can be taken to spend this amount of Rs.50 lakhs, if allotted.

Yours faithfully,

sd/

(K. M. Joshi)
Chief Engineer (General) P.W.D.

Msr/14-1

Copy of the above is forwarded to the Secretary, Control Board for Water Supply and Sanitation Scheme for Bangalore, Vidhanashoudha, Bangalore, along with a copy of the programme for needful.

14.1.64

Chief Engineer(General) PWD

14/1

K.B.Murarappa, B.E. M.C.E(USA)
Deputy Secretary to Government,
Public Works Department (Irrigation).

MYSORE GOVERNMENT SECRETARIAT,
(VIDHANA SOUDHA),

Bangalore, dated Jany., 14, 1964

D.O. No. PWD 32 BRA 62

Dear Sir,

Please refer to your D.O.letter No. HLH.16(8) 60 dated 7th January 1964. with regard to long range water supply scheme to Bangalore city.

As desired therein I am enclosing herewith the programme of works for the year 1963-64 for a sum of Rs. 50 lakhs. As requested already in Government letter of even number dated 30th December 1963, I request you kindly to see thata sum of Rs. 50 lakhs allotted to this purpose.

Early action in this matter is requested.

Yours sincerely,

Dr. M.A.N. Iyengar,
Chief (Health),
Planning Commission,
New Delhi.

ISSUED ON 19-1-64

GOVERNMENT OF MYSORE
PUBLIC WORKS DEPARTMENT.

PWD 32BR 64

Vidhana Soudha,
Bangalore 1,
Dated 14th January 1964.

M.C.A.

I am enclosing herewith a copy of Notice issued by the Private Secretary to the Chief Minister regarding Chief Minister's meeting with Professor Thasker at 11 A.M. on 16th January 1964 to discuss the Bangalore Water Supply Scheme as also Sharavathi Valley Project (III Stage). I have been directed to request you to make it convenient to attend the same.

O/c

(G.G.Balekundry)
Officer on Special Duty,
Public Works Department.

To

The Secretary to the Government of Mysore,
P.L.M. Department,
The Additional Secretary to the Government of Mysore,
Finance Deparement,
The Secretary to the Government of Mysore,
P.W. & E. Department,
The Chief Engineer (General) P.W.D. Bangalore.

157

From

The Secretary to Government of Mysore,
Public Works & Electricity Department.

To

The Chief Engineer (General),
New Public Offices,
BANGALORE.

Sir,

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore City.

Ref: This office No.PWD 112 GTW 63 dated 1st October 1963 forwarding the scheme to Ministry of Health Ministry.

I am directed to invite your attention to the above reference, under which you forwarded the scheme to the Ministry of Health. Thereafter the Assistant Chief (Health) who visited Bangalore gave us to understand that the Ministry of Health had recommended the Project to Planning Commission, with certain remarks to be fulfilled. Please confirm if these remarks were received by you personally, in which case a copy thereof should have been and should now be forwarded to Government.

2. Similarly I am also directed to request you to furnish a report of the discussions that you had with the World Bank Authorities.

3. It may please be noted that in all such matters, it is expected that necessary reports are promptly sent to Government without exception.

Yours faithfully,

Secretary to Government,
Public Works Department.

21/1/64

157

GOVERNMENT OF MYSORE

No. PWD 32 BRA 63.

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 29th Jan. 1964,
Magha ,Saka Era 1885.

FROM

The *Secretary to the Government of Mysore,*
Public Works & Electricity Department,
Bangalore.

To

The Chief Engineer (General),
New Public Offices, Bangalore.

Sir,

Subject: Integrated Water Supply and Sanitation Scheme to Bangalore City.

Reference: This Office No. PWD 112 GTW 63 dated 1st October 1963 forwarding the scheme to Ministry of Health Ministry.

===

I am directed to invite your attention to the above reference, under which you forwarded the scheme to the Ministry of Health. Thereafter the Assistant Chief (Health) who visited Bangalore gave us to understand that the Ministry of Health had recommended the Project to Planning Commission, with certain remarks to be fulfilled. Please confirm if these remarks were received by you personally, in which case a copy thereof should have been and should now be forwarded to Government.

2. Similarly I am also directed to request you to furnish a report of the discussions that you had with the World Bank Authorities.

3. It may please be noted that in all such matters, it is expected that necessary reports are promptly sent to Government without exception.

Yours faithfully,

o/c Ch 29/1

(CHANDAPPA PATIL)
Secretary to Government,
Public Works & Electricity Department.

Gva.2.29/1/64.

ISSUED ON 30-1-64

Appendix F. G. –I]

SUBJECT As at page 157

Diary No. of letter replied to.....

Mysore Government Secretariat.

( )

the 196 .

Date of issue.....

Signed by.....

List of enclosures.....

Copied by .....

Examined by.....

Section

File No.

Serial No.

No.

To The secy. planning Commission New Delhi.

I am directed to refer to the correspondence resting with this Govt D.O No PWD 32 BRA 62 D 14-1-64 addressed to Dr. M.A.N Iyengar Chief (Health) Planning commission New Delhi on the above subject and to request you kindly to allocate a sum of Rs 50 lakhs as requested in this Govt. letter

P.T.O

of even number dt 30-xii-63 at an early date.

J. F.

Dy. secy to Govt
P.W.D.

Please
11/9

161

GOVERNMENT OF MYSORE

No PWD 32 BRA 63

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 7th. Feb, ... *1964.*
13th

FROM

Secretary to the Government of Mysore,

Public Works & Electricity Department.

To

The Secretary,
Planning Commission,
Government of India, New Delhi

Sir,

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore City

---

I am directed to refer to the correspondence resting with this Government D.O.No.PWD 32 BRA 63 dated 14-1-1964 addressed to Dr.M.A.N.Iyengar Chief (Health) Planning Commission, New Delhi on the above subject and to request you kindly to allocate a sum of Rs.50 lakhs as requested in this Government letter of even number dated 30-12-1963 at an early date.

Yours faithfully,

(K.B.Murarappa)
Deputy Secretary to Govt.P.W.D.(I)

BmS.

463

No.PHG-LRWS-Br.IV/63-64.

Enclosures: Two (1) Copy of Technical comments. (2) copy of discussions with W.B. Authorities.

Dated the 14 FEB 1964

To

The Secretary to Government,
Public Works Department,
Bangalore.

CRE CONT. SECRET
195
14 FEB 1964
RECEIPT & ISSUE SECTION

Sir,

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore City.

Ref: Your letter No.PWD 32 BRA 63 dated 30-1-64.

In continuation of this office letter of even No. dated 11-10-63, on the subject, I enclose herewith a copy of technical comments made by the Directorate General of Health Services (PHE), New Delhi, and a copy of report of the discussions held with the World Bank authorities for kind information as desired.

2 The technical comments made by the Directorate General of Health Services on Watersupply scheme will have to be attended to only after tenders are called for and finalised. As such further action will not be possible for the present on the comments made on Water Supply Scheme.

3 Regarding comments made on Sewerage ~~system~~ scheme, necessary action has already been taken to finalise the scheme as per technical comments of the Directorate-General of Health Services.

4 On the points raised in the discussions with the World Bank authorities, the Superintending Engineer, Water Supply and Sanitary Circle, and the Corporation authorities have been requested to collect the necessary data and particulars.

Yours faithfully,

(G.V.Venkata Ramu)
For Chief Engineer (General).

mkg.12/2.

TECHNICAL COMMENTS.

WATER SUPPLY

TREATMENT PLANT

(i) The design criteria to be adopted for the component parts are generally acceptable. However, details of the actual lay-out of the entire plant as finally decided, based on competitive bids ~~of~~ for the work may be furnished to this Directorate for reference and record. The Special Provisions proposed to be incorporated for a 50 per cent overloading of the plant, the details of the filter media to be finally adopted, and the actual details of the filter outlet rate controls as finally provided may be furnished.

RISING MAIN.

(ii) Although an average value of 130 has been adopted for 'C' in computing the frictional loss in the pipelines, the range of variation in this value as applicable to new and ageing pipes may be re-examined in the light of the competitive offers received for different pipes materials and the results of actual experience made available in this regard.

(iii) The cost of the pipeline as included in the estimate now may have to be revised based on the competitive offers received for different pipe materials. ~~xxxxxxxx~~ The most economical size for the pipe material as may be finally selected will have to be re-examined in the light of the particulars then available.

(iv) For the same reason, the number of pumping stations proposed with the hydraulic pressures in the rising main in the different reaches, may also have to be reviewed in the light of the various offers received for the pipe line.

SERVICE STORAGE.

(v) Although the proposals provide for a full day's storage in the several service reservoirs located in the city, the provision may be made in convenient stages at the different locations so that investment far ahead of utility is avoided.

DISTRIBUTION SYSTEM

(vi) It is stated that for pipe sizes above 30"-prestressed concrete pipes are proposed to be used. Hereagain, the rates provided in the estimate may undergo a revision based on the actual cost of such pipes as manufactured and delivered, at site.

INDUSTRIAL DEMANDS.

(vii) Bulk supplies for industrial use may be included in the design of the distribution ~~xx~~ system based on a correct inventory of existing demands and an intelligent appraisal of future demands in this behalf. The assumed demand of 20 mgd. for 1981 against industrial needs may be reviewed and the design of the distribution system modified as necessary.

SEWERAGE SYSTEM

(viii) it is noted that in respect of the Koramangala and Challagatta Drainage blocks as well as the other minor valleys, details of sewer designs are under finalisation. Actual details of these ~~xxxx~~ drainage blocks when finalised and the final estimated cost thereof may be furnished to this Directorate when the details are ready.

(ix) it is not, presumably, the intention that a total daily quantity of 150 mg should be assumed as distributed to the 3 million population expected in 1981. Nor is it necessary to assume that the per capita rate would be 40 gallons for domestic use and 10 gallons against industrial needs. As indidated earlier, the industrial demands may be worked out separately based on a realistic appraisal of their needs and the sewage contribution from the industrial areas also computed on a corresponding basis. When the population should exceed the design figure of 3 millions beyond 1981, the surplus water available from the Arkavathi and Cauvery source at the time should be made available to the surplus population over an extended area of the city limits at the time.

(x) FINANCING:

The overall rate of Rs.1.22 per 1000 gallons to cover the cost of water supply and sanitation projects is based on the full quantity of 60 mgd being available for distribution. This is not perhaps a realistic appaisal as allowance for wastages, and possible shortfall in expected utilisations will have to be allowed. The figure may be revised suitably

GENERAL

(xi) In view of the tentative nature of the rates which have to be adopted for some of the major items figures in this project and the possibilities of a revision in the design and pricing of items being found necessary based on competitive offers received before commencing the execution the State Government may be requested to furnish to this Directorate a complete set of the Report with plans and estimat as finally revised at that stage for our review.

/copy/

C.R. Rangabhashayalu

For Chief Engineer (General)

COMMENTS OF THE WORLD BANK TEAM ON THE PRESENT WATER SUPPLY SCHEME TO BANGALORE AND THE INTEGRATED WATER SUPPLY AND SANITATION SCHEME TO BANGALORE.

I. The present Water Supply position:-

(a) Water Supply from the Hessaraghatta Source:-

Since the cost of water per 1000 gallons from this source works out to be quite economical the maximum extent to which this source can be tapped requires full consideration. The World Bank authorities were told that the 42" line, that is being laid, was designed to carry 8 MGD of water, whereas the safe yield from the present reservoir is 6 MGD. They were also informed that the possibility of increasing the storage is also being investigated in order to draw 8 MGD of water.

The Executive Engineer, Special Water Supply Division should work out full details of this proposal.

(b) Determination of efficiency of the existing old Pump-Sets:-

The efficiency of the existing old Pump-Sets at Soldevanahally and Tippagondanahalli may be determined. It was reported by Shri. Mahantannavar, Superintending Engineer, that their efficiency was quite high (viz, as much as 70%). This may be once again verified both in respect of Thippagondanahally Pumps and Soldevanahally Pumps.

(c) Treatment Units at Combined Jewel Filters:-

For pre-treatment of water, there are two types of Plants at C.J.F. One is the old conventional type with non-mechanical flocculation and settling, capable of dealing with about 1 MGD of water; and the other is a mechanical Plant installed by Messrs. Jewel Filter Co., some time back with mechanical flocculation and clarifier fitted with sludge scraping mechanism.

The relative efficiency of these two Plants may be studied with respect to the dosage of Alum, quality of effluent and operational costs, in order to decide which of them would be better. Similar studies may be made at Tippagondanahally where also there are the above two types of pre-treatment Plants.

(d) Rake-wash Filters at C.J.F:-

There are 5 numbers of Rake-wash filters at C.J.F. Trial may be made with a filter rate of 200 gallons

...2/

200 gallons per Sft. per hour on these Filters and the quality of the filtered effluent determined at this rate of filteration may be noted. It may also be tried as to what would be the difference in the effluent quality with or without Rake-wash of the filters.

(e) C.I.Pipe Lines at Tippagondanahally:-

There are two old C.I. Pipe Lines which are 30 and 15 years old respectively. The value of 'C' in these old Pipe Lines may be determined with a view to find out as to how much incrustation and pitting has taken place in these Pipes.

(f) It was reported that detailed working tables, to determine the quantity of water that can safely be drawn from the Reservoir at Tippagondanahally has been worked out and an average of 25 MGD is possible to be drawn. Detailed working tables for various draws up to 35 MGD may be worked out and kept ready. The quantity of water that can be conserved by reducing the losses due to evaporation by the use of Chemicles like CyTyl Alcohol may also be worked out.

(g) At the filters at Tippagondanahally one or two filters may be run at the rate of 200 gallons per Sft. per hour and a study of the quality of filtered effluent made.

II. Integrated Water Supply and Sanitation Scheme to Bangalore City:-

(a) The per capita rate of 40 gallons per head per day has been assumed for the Water Supply Scheme. The population in 1971 is taken as 2 million and the water supply designed for that population. It would be necessary to justify the rate of 40 gallons per capita per head by carrying out sample-surveys in the existing distribution. For this purpose, a few representative houses of different categories may be selected in different extensions in the City area of Bangalore and the quantity of water consumed in each house may be measured over a period of at least one month to determine the per capita consumption in these places on an average, to give an idea of the state of affairs as existing.

(b) For the design of the distribution system, a factor of 2.25 is taken in the design of all distribution mains, sub-mains, etc. It would be desirable to conduct sample-surveys to determine maximum daily and hourly flows in different localities of Bangalore City.

(c) One day's storage capacity is provided in the surface reservoirs in the integrated Scheme of Water Supply to Bangalore. The economics of providing a stand-bye diesel generating Set in place of extra half-a-day's storage may

storage may be worked out, as the provision of one day's storage is reported to be against break-down of Power Supply.

III. Phasing of the execution of the Scheme:-

(a) A complete list of materials, machinery and other equipment required for the project has to be prepared. The period within-which this could be secured and the sources from which they can be secured should be clearly indicated. This is necessary in order that the project may not be unduly held up for want of materials etc. at any stage, when once it is started. Such of the materials which are not available indigenously and which require foreign-exchange sanction etc. should also be listed out separately.

(b) The period within which the Scheme can be completed and the pattern of staff employed to complete the work within that period, with details of works proposed to be tackled, each year, should be clearly indicated.

IV: Financing of the existing Scheme:-

(a) It was reported that the Scheme under execution is being carried out of the loan granted by the Government of India. For such works, details may be furnished under the following heads:

D E B T.

1. Face Amount.
2. Purpose.
3. Interest rate.
4. Date.
5. Amortization of Grace Period.
6. Annual Payments. Interest + Principal.
7. Balance at the end of next Financial Year.

(b) In the annual maintenance estimate, both for the existing supply and to the future supplies, the following costs which do not appear to have been included, will have to be included:-

(1) Pension Contribution.
(2) Sickness Leave Allowance.
(3) Cost towards Housing and Medical facilities etc.

These facilities are actually being given to the employees and at present they are not being debited to the maintenance estimates. As these are legitimate charges, these costs will have to be debited to the maintenance estimates only. This will increase the cost of water.

V: Sewage Treatment and Disposal:-

Both primary and secondary treatment is proposed for

for the Sewage when the effluent is finally led down in the valley for being utilised for purposes of irrigation. When the effluent is utilised for irrigation, why it is necessary to have such complete treatment, requires to be explained.

It was, however, pointed to the World Bank Team that lower down the valley, people are using this water for washing clothes, Bathing and even for drinking purposes and therefore complete treatment is thought of. The World Bank Team pointed out that full data on the number of people affected lower down the Valley(both in the Vrishabhavathi valley and below Bellandur Tank) are required to be furnished before their next visit. These datas may be collected.

VI: Foreign-exchange required for materials and equipment for the existing water supply Scheme:-

A complete list of the materials and equipment required to see that the existing water supply scheme functions at 100 per cent efficiency, may be got up. Some of the items may include the Spare parts like, Loss-of-head Gauges - Rate-of-Flow Controllers- etc, for the Filters; and Pipe-cutting machine and different types of Volves for the Pipe Line and Spare parts for Pumps. The World Bank Team gave impression that they would be in a position to provide foreign exchange assistance for these materials.

--

Sd/ K.A.Joshi.
Chief Engineer(General)
PWD.

/ C O P Y /

K.V. Gundappa
(K.V.Gundappa)
for Chief Engineer(Gl)

bvs/

SECRET

No. Agt.
GOVERNMENT OF MYSORE.
Office of the Agent, Mysore Government.

MYSORE GOVT. SECT. No 191 13 FEB 1964 P.W.D. (RECORD)

2-E-6, A Barracks,
Curzon Road, New Delhi.

Dated: 10-2-1964.

D0165

WORKS & ELEC. DEPT

From

Shri Nagendra Bahadur, I.C.S.,
Agent, Mysore Government,
New Delhi.

To

(1) Shri K. Balachandran, I.C.S.,
Chief Secretary to Govt. of Mysore,
Vidhana Soudha,
Bangalore.

Agt No 66/GB/227/Gen (2) Shri Chandappa Patel, I.A.S.,
Secretary to Mysore Government,
P.W.D.,
Vidhana Soudha,
Bangalore.

Sir,

I have just been informed that the Finance Minister has sanctioned an amount of Rs. 1.5 Crores for the Bangalore Water Supply Scheme for the year 1964-65. This will be over and above the Plan provision. In view of this the question of including this Scheme in the 4th Plan does not arise at this stage. This issue can be taken up after the sanctioned amount has been utilised as there are still two years for the 4th Plan to commence.

Yours faithfully,

Nagendra

(Nagendra Bahadur)
Agent, Mysore Governmen

13/V/64

May be referred to OSD for information and return

14/2

OSD my Sa for necessary action

14/V/64

OSD

OSD (O)

No 126 18 FEB 1964 P.W.D. SECRETARIAT

The relevant file is in Spl. Irrigation Supdt. A. Compile with the

SECRET.

179.

No. Agt. 68/63/226/64
GOVERNMENT OF MYSORE.
Office of the Agent, Mysore Government.

2-E-6, A Barracks,
Curzon Road, New Delhi.

Dated: 10-2-1964.

From

Shri Nagendra Bahadur, I.C.S.,
Agent, Mysore Government,
New Delhi.

To

(1) Shri K. Balachandran, I.C.S.,
Chief Secretary to Govt. of Mysore,
Vidhana Soudha,
Bangalore.

(2) Shri Chandappa Patel, I.A.S.,
Secretary to Mysore Government,
P.W.D.,
Vidhana Soudha,
Bangalore.

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I have just been informed that the Finance Minister has sanctioned an amount of Rs. 1.5 Crores for the Bangalore Water Supply Scheme for the year 1964-65. This will be over and above the Plan provision. In view of this the question of including this Scheme in the 4th Plan does not arise at this stage. This issue can be taken up after the sanctioned amount has been utilised as there are still two years for the 4th Plan to commence.

Yours faithfully,

(Nagendra Bahadur)
Agent, Mysore Government

K. BALACHANDRAN,
Chief Secretary to Government.

C.M.

For perusal.

Secretary to Government
Public Works & Electricity Dept.

Chief Secretary to Government

Secretariat

Secy. Public Works

Spl. S

This will be kept in main file on its receipt from D/S.(J)

Chief Secretary to Government
No. 251
Government of Mysore

PWD 32 BRA 62 Dy

199

To

The Secretary,
Planning Commission,
G.O.I., NEW DELHI.

Sir,

SUB: Integrated water supply and Sanitation Scheme to Bangalore City.

I am directed to invite reference to this Govt. D.O. letter No. PWD 32 BRA 62, dated 14-1-64 to Dr. K.A.N. Iyengar, Chief (Health), Planning Commission, New Delhi and subsequent reminder of even No. dated 12-2-1964 on the above subject. Since the official year is coming to a close, I am to request you kindly to intimate communication of sanction of Rs. 50.00 lakhs for the above works during this year (1963-64), as requested in this Govt. letter of even No. dated 30-12-1963.

Issued 11/3/64

The favour of an early reply is requested.

Yours faithfully,

(K.B. Murarappa)
U.S. to Govt., P.W. & F. Dept

184
1

GOVERNMENT OF MYSORE

No. PWD 32 BRA 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 9th March 1964.
11

FROM

Secretary to the Government of Mysore,
Public Works Department.

To

The Secretary,
Planning Commission,
Government of India,
New-Delhi.

Sir,

Subject: Integrated water supply and Sanitation Scheme to Bangalore City.

I am directed to invite reference to this Government D.O.latter No.PWD 32 BRA 62, dated 14/1/64 to Dr.H.A.N. Iyengar, Chief (Health), Planning Commission, New Delhi and subsequent reminder of even number dated 12/2/1964 on the above subject. Since the official year is coming to a close, I am to request you kindly to intimate communication of sanction of Rs.50.00 lakhs for the above works during this year (1963-64), as requested in this Government letter of even number dated 30/12/1963.

The favour of an early reply is requested.

Yours faithfully,

(K. B. Murarappa)
Deputy Secretary to Government,
Public Works Department (Irrn).

Issued
Dated 11/3/64

ms/

Nagendra Bahadur, I.A.S.,
AGENT TO THE
GOVERNMENT OF MYSORE

2-E-6, A Barracks,
Curzon Road,
NEW DELHI.

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D.O. Agt. 68/63/471/64.

Dated 21-3-1964.

My dear Shri Veerendra Patil Ji,

On 10th February, 1964 I had, after discussing with Shri P.C. Mathew, Additional Secretary, Finance, informed the Chief Secretary and the P.W.D. Secretary by letter No. 68/63/226 & 227/64 that the Finance had ~~agreed~~ accorded approval to an expenditure of Rs. 1.5 crores for the Bangalore Water Supply Scheme for the year 1964-65, over and above the State Plan Provision. I had added that the question of including the remaining amount in the 4th Plan will be taken up later. I had informed the Chief Minister at the Air-port about this approval having been accorded.

2. The Finance Ministry in their endorsement while according approval to the above had stated that perhaps the various schemes including the Shimsa Scheme had been considered in this connection and the cheapest is proposed to be taken up.

3. Actually this conditional endorsement delayed the issue of orders. I have since discussed this with the Director General of Health Services (Rajagopalan) and the officers of the Health Ministry. They have agreed to communicate sanction to Rs. 1.5 crore for 1964-65 and the orders will probably issue today or to-morrow. In this connection kindly peruse para. 2 of my letter No. 28/63/441/64 dated 18-3-1964.

The Health Ministry in their Draft Order communicating sanction assistance of Rs. 1.5 crore have referred to the acceptance of the Rs. 25 crore Scheme as well. They have, however, left it to the State Government to satisfy themselves as to whether the Shimsa Scheme is a feasible proposition. The Director General of Health Services in the note that he has recorded has strongly supported the scheme as recommended by the State Government.

4. As stated above, the Draft Sanction Order which was shown to me and is being issued with the approval of the Secretary, Health Ministry, will perhaps reach Bangalore in the course of the next 2 or 3 days.

With best regards,

Yours sincerely,

Nagendra

(Nagendra Bahadur)

Shri Veerendra Patil Ji,
Minister for Public Works,
Mysore Government,
Bangalore.

MINISTER FOR PUBLIC WORKS
NO. 823
23 MAR 1964
BANGALORE

413
25 MAR 1964
Spl. S. 9

SECRETARY TO GOVERNMENT
No. M-31
25 MAR 1964
PUBLIC WORKS & ELEC. DEPT.

No.F.1(Mys)5(WS)/62-P
Government of India,
Ministry of Health.

New Delhi, the 24th March, 1964.

From

Shri Amar Nath Varma,
Under Secretary to the Govt. of India.

To

The Secretary to the Govt. of Mysore,
Public Works & Electricity Department,
Vidhana Soudha, Bangalore.

Subject:- Integrated Water Supply and Sanitation Scheme to Bangalore City - Approval of.

Sir,

With reference to your letter No.PWD.112. GTW63, dated the 1st October, 1963 on the subject mentioned above, I am directed to say that the Integrated Water Supply and Sanitation Scheme for Bangalore City has been examined and the technical comments of the Central Public Health Engineering Organisation are forwarded herewith.

I am to convey the sanction of the Government of India to the grant of Central assistance of Rs.1.50 crores (Rupees one crore and fifty lakhs) only to the Government of Mysore for expenditure on this project in 1964-65. This assistance would be over and above the existing provision in the State Plan. The assistance would be in the form of a loan as in the case of other water supply and drainage schemes under the National Water Supply and Sanitation Programme (Urban) and the normal conditions attached to such assistance would apply.

I am also to suggest that the merits of alternative schemes, e.g. Shimsha scheme which would serve the same purpose and their comparative costs may also be studied before finalising the scheme to be accepted for inclusion in the Fourth Plan.

Yours faithfully,

UNDER SECRETARY.

send a copy to C.E.(E.) & Pwn up file

As the relevant file is with O.S.D. from 19-x-63, this may be marked to the office of O.S.D. for necessary action.

May be referred to O.S.D.

R. A. RAMASWAMY,
Under Secy., P.W. & Electy. Depn.

TECHNICAL COMMENTS

WATER SUPPLY

Treatment Plant

(1) The design criteria to be adopted for the component parts are generally acceptable. However, details of the actual lay-out of the entire plant as finally decided, based on competitive bids for the work may be furnished to this Directorate for reference and record. The special provisions proposed to be incorporated for a 50 per cent overloading of the plant, the details of the filter media to be finally adopted, and the actual details of the filter outlet rate controls as finally provided, may be furnished.

Rising main.

ii) Although an average value of 130 has been adopted for 'C' in computing the frictional loss in the pipelines, the range of bariation in this value as applicable to new and ageing pipes may be re-examined in the light of the competitive offers received for different pipes materials and the results of actual experience made avaialble in this regard.

iii) The cost of the pipeline as included in the estimate now may have to be revised based on the competitive offers received for different pipe materials. The most economical size for the pipe material as may be finally selected will have to be reexamined in the light of the particulars then available.

iv) For the same reason, the number of pumping stations proposed, with the hydraulic pressures in the rising main in the different reaches may also have to be reviewed in the light of the various offers received for the pipeline.

SERVICE STORAGE:

v) Although the proposals provide for a full day's storage in the several service reservoirs located in the city, the provision may be made in convenient stages at the different locations so that investment far ahead of utility is avoided.

Distribution system.

vi) It is stated that for pipe sizes above 30" pre-stressed concrete pipes are proposed to be used. Here again, the rates provided in the estimate may undergo a revision based on the actual cost of such pipes as manufactured and delivered at site.

Industrial demands

vii) Bulk supplies for industrial use may be included in the design of the distribution system based on a correct inventory of existing demands and an intelligent appraisal of future demands in this behalf. The assumed demand of 20 mgd. for 1981 against industrial needs may be reviewed and the design of the distribution system modified as necessary.

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189

Sewerage System

(viii) It is noted that in respect of the Koranmangalam and Challagatta Drainage blocks as well as the other minor valleys, details of sewer designs are under finalisation. Actual details of these drainage blocks when finalised and the final estimated cost thereof may be furnished to this Directorate when the details are ready.

(ix) It is not, presumably, the intention that a total daily quantity of 150 mg should be assumed as distributed to the 3 million population expected in 1981. Not is it necessary to assume that the per capita rate would be 40 gallons for domestic use and 10 gallons against industrial needs. As indicated earlier, the industrial demands may be worked out separately based on a realistic appraisal of their needs and the sewage contribution from the industrial areas also computed on a corresponding basis. When the population should exceed the design figure of 3 millions beyond 1981, the surplus water available from the Arkavathi and Cauvery source at the time should be made available to the surplus population over an extended area of the city limits at the time.

(x) Financing:

The overall rate of Rs.1.22 per 1000 gallon to cover the cost of water supply and sanitation projects is based on the full quantity of 60 mgd being available for distribution. This is not perhaps a realistic appraisal as allowance for wastages, and possible shortfall in expected utilisations will have to be allowed. The figure may be revised suitably

General

(xi) In view of the tentative nature of the rates which have to be adopted for some of the major items figuring in this project and the possibilities of a revision in the design and pricing of items being found necessary based on competitive offers received before commencing the execution, the State Govt. may be requested to furnish to this Directorate a complete set of the Report with plans and estimates as finally revised at that stage for our review.

Itd/S.R.
3.10.63.

191 789 793

pendix F. G.—1]

SUBJECT ..... Integrated water supply & sanitation ..... scheme to Bangalore City. ..... Approval of.

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 1964

Date of issue.....

Signed by .....

Issued

Dated 2/4/64

List of enclosures.....

Copied by.....

Examined by.....

Section PWD 112 GTWS

File No. 63

Serial No.

No.

To The C.E. (G), Bangalore.

I am directed to enclose herewith a copy of the Govt of India ministry of Health letter No F. 1(Mys)5 (WS)/62-P D/24-3-64 for information & necessary action.

J.F.

U.S. to P.W.D.

4/4/64

WD 012116—GPB—4,00,000—7-3-63

~~185~~ 193

GOVERNMENT OF MYSORE

No PWD 112 GTW 63.
Encl.1

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore 4th April, ...*1964*

FROM

The *Secretary to the Government of Mysore,*
P.W. & Electricity Department.

To

The Chief Engineer (General),
Bangalore.

Sir,

SUB: Integrated Water Supply & sanitation scheme to Bangalore city - Approval of.

I am directed to enclose herewith a copy of the Government of India, Ministry of Health letter No. F.1(Mys.)5(WS)/62-P dated 24-3-1964 for your information and necessary action.

Yours faithfully,

4/4/64

(R.A.Ramaswamy)
Under Secretary to Government,
P.W. & Electricity Department.

Issued
Dated 8/4/64

O/C

NCR:2.

TECHNICAL COMMENTS. 187/195

WATER SUPPLY

Treatment Plan

(1) The design criteria to be adopted for the component parts are generally acceptable. However, details of the actual lay-out of the entire plant as finally decided, based on competitive bids for for the work may be furnished to this directorate for reference and record. The special provisions proposed to be incorporated for a 50 per cent overloading of the plant, the details of the filter media to be finally adopted, and the actual details of the filter outlet rate controls as finally provided, may be furnished.

Rising main.

ii) Although an average value of 130 has been adopted for 'C' in computing the frictional loss in the pipelines, the range of bariation in this value as applicable to new and ageing pipes may be re-examined in the light of the competitive offers received for different pipes materials and the results of actual experience made available in this regard.

iii) The cost of the pipeline as included in the estimate now may have to be revised based on the competitive offers received for different pipe materials. The most econom cal size for the pipe material as may be finally selected will have to be reexamined in the light of the particulars then available.

iv) For the same reason, the number of pumping stations proposed, with the hydraulic pressures in the rising main in the different reaches may also have to be reviewed in the light of the various offers received for the pipeline.

SERVICE STORAGE:

V) Although the proposals provide for a full day's storage in the several service reservoirs located in the city, the provision may be made in convenient stages at the different locations to that investment far ahead of utility is avoided.

Distribution system.

vi) It is stated that for pipe sizes above 30" pre-stressed concrete pipes are proposed to be used. Here again, the rates provided in the estimate may undergo a revision based on the actual cost of such pipes as manufactured and delivered at site.

Industrial demands

vii) Bulk supplies for industrial use may be included in the design of the distribution syste based on a correct inventory of existing demands and an intelligent appraisal of future demands in this behalf. The assumed demand of 20 mgd. for 1981 against industrial needs may be reviewed and the design of the distribution system modified as necessary.

.....2/-

Sewerage System

(viii) It is noted that in respect of the Koranmangalam and Challagatta Drainage blocks as well as the other minor valleys, details of sewer designs are under finalisation. Actual details of these drainage blocks when finalised and the final esti ated cost thereof may be furnished to this Directorate when the details are ready.

(ix) It is not, presumably, the intention that a total daily quantity of 150 mg should be assumed as distributed to the 3 million population expected in 1981. Not is it necessary to assume that the per capita rate would be 40 gallons for domestic use and 10 gallons against industrial needs. As indicated earlier, the industrial demands may be worked out separately based on a realistic appreaisal of their needs and the sewage contribution from the industrial are as also computed on a corresponding basis. When the population should exceed the design figure of 3 millions beyond 1981, the surplus water available from the Arkavathi and Cauvery source at the time should be made available to the surplus population over an extended area of the city limits at the time.

(x) Financing:

The overall rate of Rs.1.22 per 1000 gallon to cover the cost of water supply and sanitation projects is based on the full quantity of 60 mgd being available for distribution. This is not perhaps a realistic appraisal as allowance for wastage, and possible shortfall in expected utilisations will have to be allowed. The figure may be revised suitably.

General.

(xi) In view of the tentative nature of the rates which have to be adopted for some of the major items figuring in this project and the possibilities of a revision in the design and pricing of items being found necessary based on competitive offers received before commencing the Execution, the State Govt. may be requested to furnish to this Directorate a complete set of the Report with plans and estimates as finally revised at that stage for our review.

....

199 ~~191~~

No.F.1(Mys)5(WS)/62-P
Government of India,
Ministry of Health.

New Delhi, the 24th March, 1964.

From

Shri Amar Nath Varma,
Under Secretary to the Govt. of India,

The Secretary to the Govt. of Mysore,
Public Works & Electricity Department,
Vidhana Soudha, Bangalore.

SUB: Integrated Water Supply and Sanitation Scheme to Bangalore City - Approval of.

Sir,

With reference to your letter No.PWD. 112. GTW 63, dated the 1st October, 1963 on the subject mentioned above, I am directed to say that the integrated Water Supply and Sanitation Scheme for Bangalore City has been examined and the technical comments of the Central Public Health Engineering Organisation are forwarded herewith.

I am to convey the sanction of the Government of India to the grant of Central assistance of Rs.1.50 crores (Rupees one crore and fifty lakhs) only to the Government of Mysore for expenditure on this project in 1964-65. This assistance would be over and above the existing provision in the State Plan. The assistance would be in the form of a loan as in the case of other water Supply and drainage schemes under the National Water Supply and Sanitation Programme (Urban) and the normal conditions attached to such assistance, would apply.

I am also to suggest that the merits of alternative schemes, e.g. Shimsha scheme which would serve the same purpose and their comparative costs may also be studied before finalising the scheme to be accepted for inclusion in the Fourth Plan.

Yours faithfully,

x x x

UNDER SECRETARY.

"Copy"

No.F.1(Mys)-5(WS)/62-P
Government of India
Ministry of Health.
...

New Delhi, Dated 9 April, 64.

From

Shri Amar Nath Varma,
Under Secretary to the Government of India.

To

The Secretary to the Govt. of Mysore,
Public Works and Electricity Deptt.,
Vidhana Soudha, Bangalore.

497.
13 APR 1964
P.W.D. (RECEIPT & ISSUE)

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore City- Approval of -
.....

Sir,

× P-126 c/f

×× P-185 c/f

With reference to your letter No.PWD. 112-GTW 63- dated the 1st October, 1963 and in supersession of this Ministry's letter No.1(Mys)-5(WS)/62-P dated the 24th March, 64, I am directed to convey the approval of the Government of India to the execution of the integrated water supply and sanitation project for Bangalore City at an estimated cost of Rs.25.00 crores subject to the technical comments of the CPHEO as in the enclosed note.

I am also to convey the sanction of the Govt. of India to the grant of Central assistance ~~of~~ not exceeding Rs.1.5 crores to the Govt. of Mysore to meet the expenditure on this project during 1964-65. This assistance would be over and above the Central assistance already intimated to the State for the approved Plan Outlay for the year 1964-65. The assistance would be in the form of a loan as in the case of other water supply and drainage schemes under the National Water Supply and Sanitation Programme (Urban) and the normal conditions attached to such assistance would apply. The question whether this amount will be over and above the ceiling of total assistance for the Third Five Year Plan does not arise at present since it is not possible now to determine the quantum of total Central assistance which the State will earn on the basis of the relevant patterns of assistance and actual plan outlays.

Yours faithfully,

UNDER SECRETARY.

for personal

OSD(T) This may be placed in the file. This was only received 14/4/64 Mr. Mody.

O.S.(I)

TECHNICAL COMMENTS

WATER SUPPLY

Treatment Plant

(i) The design criteria to be adopted for the [illegible] component parts are generally acceptable. However, details of the actual lay-out of the entire plant as finally decided, based on competitive bids for the work may be furnished to this Directorate for reference and record. The special provisions proposed to be incorporated for a 50 per cent overloading of the plant, the details of the filter units to be finally adopted, and the actual details of the filter outlet rate controls as finally provided, may be furnished.

Rising main.

ii) Although an average value of 130 has been adopted for 'C' in computing the frictional loss in the pipelines, the range of variation in this value as applicable to new and ageing pipes may be re-examined in the light of the competitive offers received for different pipes materials and the results of actual experience made available in this regard.

iii) The cost of the pipeline as included in the estimate now may have to be revised based on the competitive offers received for different pipe materials. The most economical size for the pipe material as may be finally selected will have to be reexamined in the light of the particulars then available.

iv) For the same reason, the number of pumping stations proposed, with the hydraulic pressures in the rising main in the different reaches may also have to be reviewed in the light of the various offers received for the pipeline.

SERVICE STORAGE.

v) Although the proposals provide for a full day's storage in the several service reservoirs located in the city, the provision may be made in convenient stages at the different locations so that investment far ahead of utility is avoided.

Distribution system.

vi) It is stated that for pipe sizes above 30" pre-stressed concrete pipes are proposed to be used. Here again, the rates provided in the estimate may undergo a revision based on the actual cost of such pipes as manufactured and delivered at site.

Industrial demands

vii) Bulk supplies for industrial use may be included in the design of the distribution system based on a correct inventory of existing demands and an intelligent appraisal of future demands in this behalf. The assumed demand of 20 mgd. for 1981 against industrial needs may be reviewed and the design of the distribution system modified as necessary.

.....2

TECHNICAL COMMENTS

WATER SUPPLY

Treatment Plant

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...../

...../2

Sewerage System

(viii) It is noted that in respect of the Koramangalam and Challagatta Drainage blocks as well as the other minor valleys, details of sewer designs are under finalisation. Actual details of these drainage blocks when finalised and the final estimated cost thereof may be furnished to this Directorate when the details are ready.

(ix) It is not, presumably, the intention that a total daily quantity of 150 mg should be assumed as distributed to the 3 million population expected in 1981. Not is it necessary to assume that the per capita rate would be 40 gallons for domestic use and 10 gallons against industrial needs. As indicated earlier, the industrial demands may be worked out separately based on a realistic appraisal of their needs and the sewage contribution from the industrial areas also computed on a corresponding basis. When the population should exceed the design figure of 3 millions beyond 1981, the surplus water available from the Arkavathi and Cauvery sources at the time should be made available to the surplus population over an extended area of the city limits at the time.

(x) Financing:

The overall rate of Rs.1.22 per 1000 gallon to cover the cost of water supply and sanitation projects is based on the full quantity of 60 mgd being available for distribution. This is not perhaps a realistic appraisal as allowance for wastages, and possible shortfall in expected utilisations will have to be allowed. The figure may be revised suitably.

General

(xi) In view of the tentative nature of the rates which have to be adopted for some of the major items figuring in this project and the possibilities of a revision in the design and pricing of items being found necessary based on competitive offers received before commencing the execution, the State Govt. may be requested to furnish to this Directorate a complete set of the Report with plans and estimates as finally revised at that stage for our review.

Itd/S.R.
3.10.63.

Draft U.O. 205 PWD

PWD.141 GTW 62. Dt ----

Subject:— Integrated water supply & Sanitation scheme to Bangalore city — Cauvery scheme.

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page 200). A copy of ~~the Govt of India~~ ~~Ministry of Health~~ letter No F.1 (Mys)-5 (WS)/62-P of the Ministry of Health, G o I dt 9-4-64 is enclosed herewith for information.

U.S. to Govt
P.W.D (Spl Wing)

To, The Secy to Govt.
F.D.

21/4 21/4

GOVERNMENT OF MYSORE.

20

No.PWD 141 GTW 62.

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, Dated: 23-4- 1964.

Sub:-Integrated water supply and sanitation scheme to Bangalore city-Cauvery scheme.

A copy of the letter No. F.1(Mys)-5(WS)/62-P, dated 9-4-64 of the Ministry of Health, Government of India is enclosed herewith for information.

O/C

25/4/64

(R.A.Ramaswamy)
Under Secretary to Government,
Public Works Department(Elecl).

27/4/64

O/C 2/4/4

To

The Secretary to Government,
Finance Department.

kjp/24-4-64.

Copy of Letter No.F.1(Mys)-5(WS)/62-, dated 9-4-1964, from the Under Secretary, Government of India, Ministry of Health, New Delhi, addressed to the Secy.to the Government of Mysore, Public Works and Electricity Department, idhana Soudha, Bangalore.

Sub:-IntegratedWater Supply and Sanitation Scheme to BangaloreCity- Approval of -

With reference to your letter No.PWD 112-GTW 63 dated the 1st October, 1963 and in supersession of this Ministry's letter No.1(Mys)-5(WS)/62- dated the 24th March, 64, I am directed to convey the approval of the Government of India to the execution of the integrated water supply and sanitation project for Bangalore City at an estimated cost of Rs. 25.00 crores subject to thetechnical comments of the CPHEO as in the enclosed note.

I am also to convey the sanction of the Govt. of India to the grant of central assistance not exeedinging Rs. 1.5 crores to the Govt. of Mysore to meet the expenditure on this project during 1964-65. This assistance would be over and above the Central assistance already intimated to the State for the approved Plan Outlay for the year 1964-65. The assistance would be in the form of a loan as in the case of other water supply and drainage schemes under the National Water Supply and Sanitation programme (urban) and normal conditions attached to such assistance would apply. The question whether this amount will be over and above the ceiling of total assistance forthe Third Five Year Plan does not arise at present since it is not possible now to determine the quantum of total Central assistance which the State will earn on the basis of the relavant patterns of assistance and actual plan outlays.

// Copy //

For Secy. to Government,
Public Works Department.

kjp/24-4-64.

'CONFIDENTIAL'

No. 5-4/62-PHE
संख्या

S. Rajagopalan,
Deputy Director General
(Public Health Engineering).

स्वास्थ्य-सेवा का महानिदेशालय
DIRECTORATE GENERAL OF
HEALTH SERVICES,

New Delhi-2, the 28th April, 1964.
नई दिल्ली-२, दिनांक ..... १९६..

Dear Shri Chandappa Patel,

Reference your letter of 20th instant. The following is a tentative list of Consultant Engineers suitable for the purpose in view :-

U.S.A.

1. Black and Veatch Inco.,
1500 Leadow Lane, Kansas City, Kansas.

2. Hazen and Sawyer Engineers,
360, Lexington Ave., N.Y. 17
New York.

CANADA

3. James Maclaren Ltd.,
Consulting Engineers, Toronto.

U.K.

4. Binnie & Partners, Artillery Mansions,
Artillery Road, Westminster, London, S.W.I.

ISRAEL

5. Tahal (Water Planning Inc.),
Tel Aviv.

Yours sincerely,

(S. Rajagopalan)

Shri Chandappa Patel,
Secretary (P.W.D.) to the
Government of Mysore,
BANGALORE

Chandappa Patel

209

May 4,

PA.95/64

MYSORE GOVT. SECRETARIAT
No. 3-02-ID/64
4 MAY 1964
P.W.D. (GENERAL Ins.) BANGALORE

Dear Shri Joshi,

I am enclosing herewith a copy of the D.O. letter No.5-4/62-PHE dated 28-4-1964 from Shri S. Rajagopalan, Deputy Director General (Public Health Engineering), New Delhi regarding selection of consultant engineers for the Bangalore Water Supply Scheme.

D.O.S20

I request you kindly to send a draft letter to be addressed to the firms for acceptance of the appointment as consultant. This may be treated as urgent.

Yours sincerely,

O/c

Shri K.M. Joshi,
Chief Engineer (General),
Bangalore.

Receive the letter

DSD's Section)

O/S(a)

This is received and referred to O.S.O)

Copy of D.O. letter No.5-4/62-PHS dated 28-4-1964 from Shri S. Rajagopalan, Deputy Director General (Public Health Engineering), Directorate General of Health Services, New Delhi addressed to the Secretary to Government, Public Works Department, Bangalore.

Reference your letter of 20th instant. The following is a tentative list of Consultant Engineers suitable for the purpose in view:-

U.S.A.

1. Black and Veatch Inco.,
   1500 Leadow Lane, Kansas City, Kansas.

2. Hazen and Sawyer Engineers,
   360, Lexington Ave., N.Y. 17,
   New York.

CANADA

3. James Maclaren Ltd.,
   Consulting Engineers, Toronto.

U.K.

4. Binnie & Partners, Artillery Mansions,
   Artillery Road, Westminister, London, S.W.I.

ISRAEL

5. Tahal (Water Planning Inc.),
   Tel Aviv.

.....
"C O P Y"

6) Vatten bygnads Byraan
Byraan
Hamlegaatgatan
29. Stockholm
Cables "Vatten"

IMMEDIATE
EXPRESS DELIVERY

S. RAJAGOPALAN
Dy. Director General (PHE)

No. 17-5/64-PHE

Directorate General of
Health Services,
New Delhi,
dated 2nd May, 1964.

SECRETARY TO GOVERNMENT
No. T. 827
5 MAY 1964
PUBLIC WORKS & ELEC. DEPT.

Dear Shri Balachandran,

As you are aware the Ministry of Health have secured the services of 2 foreign consultants -- Dr. H.T. Shenefield, financial expert and Mr. N.J. Pugh, Public Health Engineer -- through the WHO to enable some of the State Governments to prepare a Package Programme to include selected urban water supply and sewerage schemes for implementation with international assistance if available.

Inasmuch as Bangalore Comprehensive Water Supply and Sewerage Scheme has now reached final stages of processing for implementation with loan assistance from the World Bank if and to the extent available, the two visiting consultants may please be given an opportunity to study the problem on the spot and to acquaint themselves with its engineering, administrative and financial facets as a preliminary to processing other projects on the same lines.

Incidentally, it may also be worthwhile for the Mysore State Government to utilise the two visiting consultants in preparing and processing any other major urban water supply and sewerage scheme in the State which could be included in the proposed package programme.

A copy of the tour programme of the two visiting consultants is placed below. It is requested that they may be given necessary facilities for their accommodation, transport and discussions with the local officials and engineers. They may also be met at the airport on their arrival.

The cooperation of the State Government in the matter will be deeply appreciated.

Yours sincerely,

(S. RAJAGOPALAN)

Shri K. Balachandran, I.C.S.
Chief Secretary to Government of Mysore
Vidhana Soudha
Bangalore-1

MYSORE GOVT. SECRETARIAT
No. 301/2
11 MAY 1964
P.W.D. (GENERAL & B.A. BRANCH)

PTO

Tour Programme of Mr. N.J. Pugh and Dr. H.T. Shenefield, WHO Consultants to the CPHEO for the month of May, 1964.

.....

5-5-1964	Leave Delhi - 06-15 hrs. - Flt. IC 403 & 135
	Arrive Bangalore (via Hyderabad) - 11-30 hrs.
5-5-1964 to 9-5-1964	Stay at Bangalore - Discussions with the State Chief Engineer and other officials regarding the Integrated Water Supply and Sewerage Scheme to Greater Bangalore and other urban schemes of Mysore State.
10-5-1964	Leave Bangalore - 12-50 hrs. for Madras

Office of the Chief Engineer (General),
of Mysore, Bangalore.

No. BWSS/WS/64
E1 Draft

Dated the 4/5/64.

To

The Secretary to Government,
Public Works Department, Bangalore.

MYSORE GOVT. SECRETARIAT
No 617
5 MAY 1964
P.W.D. (RECEIPT & ISSUE SECTION)

Sub: Integrated Watersupply and Sanitation Scheme to Bangalore.

When the World Bank Team was here for their appraisal of the above project, it was decided that some Consultants may be addressed regarding the design, particularly for the prestressed transmission pipeline. Accordingly, the Superintending Engineer, Water Supply and Sanitary Circle, has submitted a draft letter to be addressed to the Consultants. It is reported that the draft has been prepared in consultation with the World Bank authorities. I request that consultant firms may be addressed in the matter.

Yours faithfully,

Chief Engineer (General).

May be referred to G.S.X (9)

Please put up in a file with not send.

214

To

Dear Sirs,

An Integrated Water Supply and Sanitary Scheme for Bangalore, estimated to cost Rs.250 Million Rupees, is proposed to be taken up for execution immediately with the aid of the World Bank. A very brief description of the Scheme is given below.

Bangalore is the Capital of Mysore State. Its elevation is 3,000 feet. It is known for its salubrious climate and is one of the Chief Centres of Industrial, Commercial and Educational Importance. It is well served by Air Mail and Road & Rail Communications facilities. The population of the City as per 1961 Census was 1.2 million. It is anticipated that the growth of the City will be very rapid once, it is provided with adequate power and water, the two ~~handicap~~ under which the City is suffering actually at present. The City is currently getting a supply of 30 Million Gallons per da from the existing sources.

PROPOSED SCHEME:

After a very detailed investigations, of the trends of population growth, expansion, the existing sources and also possible new sources, it has been decided to assure an additional supply of 60 million gallons per day from the River Cauvery. This will be a first stage measure and will cater to about 2 million people at a per capita supply of 40 gallons of water per day. The main components of the Schemes are as under:

1. Gravity main to supply 60 million gallons per day of raw water from Head works to Treatment Plant(66" dia. Prestressed concrete pipes about 5 miles length).
2. 60 Million Gallons per day treatment plant.
3. Pumping main 60" dia. from for Treatment plant site to Bangalo about 5 miles long(Prestressed Concrete pipes).

2) Prepare technical designs of the water distribution and sewerage schemes, direct the detailed design, and prepare the tender documents and supervision of the Construction for the Sewer.

3.) Advise on Operation, maintenance, and Staffing of the treatment plants, pumping stations, The Local Services and personnel will be provided by the authority in Charge of the Executing of the works.

215 215

4. Sumps, Pumphouses and Pumping Machineries suitable to pump 60 Million Gallons per day against a static lift of about 1,000 feet.

5. Remodelling the existing Water Supply Distribution system.

6. Remodelling the Sewerage system and installation of Primary Treatment units.

The Total cost of the Scheme is approximately 250 million rupees. All the above works will be executed under the agencies of a Water Supply and Sanitary Board to be started and constituted for the purpose. The project is likely to be taken up for execution immediately and is proposed to be completed in a period of 4 years. It is intended to appoint Consultants for these works whose functions will be broadly as follows:

1(a) Review the design and modify if necessary of transmission mains, treatment plants, pumping stations.

(b) Prepare tender documents, for the above works and recommend award.

(c) Supervise construction for the above works.

2 & 3 →

Management ~~xxxxxxxx~~ assistance to the new Board is also sought. This might be by a full time works adminis/ tration Advisor for an appropriate purpose. Accounting assistant~~s~~ is expected to be available locally. Such services may be ~~proved~~ provided with Engineering Services or under a separate contract.

A

If you are interested in the above please reply immediately with your past experience in the above fields with particular reference to (Prestressed concrete) Transmission lines. Detailed negotiations will be conducted with the selected consultants. It is antici/ pated that a Consulting Firm will be settled for final negotiations by Mid Summer 1964.

Truely Yours,

215 ~~27~~

4. Sumps, Pumphouses and Pumping Machineries suitable to pump 60 Million Gallons per day against a static lift of about 1,000 feet.

5. Remodelling the existing Water Supply Distribution system.

6. Remodelling the Sewerage system and installation of Primary Treatment units.

The Total cost of the Scheme is approximately 250 million rupees. All the above works will be executed under the agencies of a Water Supply and Sanitary Board to be started and constituted for the purpose. The project is likely to be taken up for execution immediately and is proposed to be completed in a period of 4 years. It is intended to appoint Consultants for these works whose functions will be broadly as follows:

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Truely Yours,

16. Vattenbyggnadsbyraan,
Humlegaardgatan,
29 - Stockholm

1. Black and Veatch Inco.,
   1500 Leadow Lane, Kansas City, Kansas.
   USA.

2. Hazen and Sawyer Engineers,
   360, Lexington Ave, N.Y. 17,
   New York, USA.

3. James Maclaren Ltd.,
   Consulting Engineers, Toronto,
   Canada.

4. Binnie & Partners, Artillery Mansions,
   Artillery Road, Westminster, London, S.W.I.
   U.K.

5. Tahal (Water Planning Inc.),
   Tel Aviv, Israel.

6. Vatten Bygnads Byraan,
   Byraan, Hamlegaadgattan,
   29 Stockholm,
   Cables 'Vatten'.

217
1

1. Black and Veatch Inco.,
   1500 Leadow Lane,Kansas City,Kansas.
   USA.

2. Hazen and Sawyer Engineers,
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   New York,USA.

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   Canada.

4. Binnie & Partners,Artillery Mansions,
   Artillery Road,Westminster,London,S.W.I.
   U.K.

5. Tahal (Water Planning Inc.),
   Tel Aviv,Israel.

6. Vattenbyggnadsbyraan,
   Humlegaardgatan,
   29- Stockholm.

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62.

MYSORE GOVERNMENT SE
VIDHANA SOUDH.
Dated, Bangalore, 20th M

FROM

Secretary to the Government of Mysore,
Public Works and Electricity Department.

To

M/S.Black and Veatch Inco.,
1500 Leadow Lane,
Kansas City,
KANSAS. U.S.A.

Dear Sirs,

An Integrated Water Supply and Sanitary Scheme for Bangalore estimated to cost 250 Million Rupees, is proposed to be taken up for execution immediately with the aid of the World Bank. A very brief description of the Scheme is given below:

Bangalore is the Capital of Mysore State. Its elevation is 3,000 feet. It is known for its salubrious climate and is one of the Chief Centres of Industrial, Commercial and Educational Importance. It is well served by Air Mail and Road and Rail Communications facilities. The population of the City as per 1961 Census was 1.2 Million. It is anticipated that the growth of the City will be very rapid once, it is provided with adequate power and water, the two handicaps under which the City is suffering actually at present. The City is currently getting a supply of 30 Million Gallons per day from the existing sources.

PROPOSED SCHEME.

After a very detailed investigation, of the trends of population growth, expansion the existing sources and also possible new sources, it has been decided to assure an additional supply of 60 Million Gallons per day from the River Cauvery. This will be a first stage measure and will cater to about 2 Million people at a per capital supply of 40 Gallons of water per day. The main component of the Schemes are as under:

1. Gravity main to supply 60 million gallons per day of raw water from Head works to treatment Plant (66" dia.Prestressed concrete pipes about 5 miles length).

2. 60 million gallons per day treatment plant

3. Pumping main 60" dia.from Treatment Plant site to Bangalore about 50 miles long (Prestressed Concrete Pipes)

Continued. (Pa

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1. Black and Veatch Inco.,
   1500 Leadow Lane,Kansas City,Kansas.
   USA.

2. Hazen and Sawyer Engineers,
   360,Lexington Ave,N.Y.17,
   New York,USA.

3. James Maclaren Ltd.,
   Consulting Engineers,Toronto,
   Canada.

4. Binnie & Partners,Artillery Mansions,
   Artillery Road,Westminster,London,S.W.I.
   U.K.

5. Tahal (Water Planning Inc.),
   Tel Aviv,Israel.

6. Vattenbyggnadsbyraan,
   Humlegaardgatan,
   29, Stockholm

219
1

4. Sumps, Pumphouses and Pumping machineries suitable to pump 60 million gallons per day against a static lift of about 1,000 feet.

5. Remodelling the existing Water Supply Distribution system.

6. Remodelling the Sewerage system and installation of Primary Treatment Units.

The total cost of the scheme is approximately 250 million rupees. All the above works will be executed under the agencies of a Water Supply and Sanitary Board to be started and constituted for the purpose. The Project is likely to be taken up for execution immediately and is proposed to be completed in a period of 4 years. It is intended to appoint Consultants for these works whose functions will be broadly as follows:-

1.(a) Review the design and modify if necessary of transmission mains, treatment plants, pumping stations.

(b) Prepare tender documents for the above works and recommend award.

(c) Supervise construction for the above works.

2. Prepare functional designs of the Water distribution and sewerage schemes, direct the detailed design and preparation of tender documents and the supervision of the construction for the same

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If you are interested in the above, please r immediately with your past experience in th fields with particular reference to (Prestr crete) Transmission lines. Detailed negoti be conducted with the selected consultants anticipated that a Consulting Firm will b for final negotiations by Mid Summer 196

Truly Yours,

(CHANDAPPA PAT
Secretary to Gover
Public Works and Electri

issued
Dated 9-5-64

219

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Truly Yours,

(CHANDAPPA PATEL),
Secretary to Government,
Public Works and Electricity Department.

Issued
Dated 28-5-64

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GOVERNMENT OF MYSORE

PWD 141 GTW 62

MYSORE GOVERNMENT SECRETARIAT
VIDHANA SOUDHA,

Dated, Bangalore, 20th May .. 1964.

DM

Secretary to the Government of Mysore.
Public Works & Elecy. Department.

M/s Hazen and Sawyer Engineers,
360, Lexington Ave., N.Y. 17,
New York, U.S.A.

Dear Sirs,

An Integrated Water Supply and Sanitary Scheme for Bangalore estimated to cost 250 Million Rupees, is proposed to be taken up for execution immediately with the aid of the World Bank. A very brief description of the Scheme is given below:

Bangalore is the Capital of Mysore State. Its elevation is 3,000 feet. It is known for its salubrious climate and is one of the Chief Centres of Industrial, Commercial and Educational Importance. It is well served by Air Mail and Raad and Rail Communications facilities. The population of the City as per 1961 Census was 1.2 million. It is anticipated that the growth of the City will be very rapid once, it is provided with adequate power and water, the two handicaps under which the City is suffering actually at present. The City is currently getting a supply of 30 Million Gallons per day from the existing sources.

PROPOSED SCHEME:

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4. Sumps, Pumphouses and Pumping Machineries sui ble to Pump 60 Million Gallons per day agains static lift of about 1,000 feet.

5. Remodelling the existing Water Supply Distri tion system.

contd..

GOVERNMENT OF MYSORE

PWD 141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 20th May 1964.

FROM

Secretary to the Government of Mysore,
Public Works & Elecy. Department.

To

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360, Lexington Ave., N.Y. 17,
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Dear Sirs,

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5. Remodelling the existing Water Supply Distribution system.

contd.....

6. Remodelling the Sewerage system and installation of Primary Treatment units.

The Total cost of the Scheme is approximately 250 million rupees. All the above works will be executed under the agencies of a Water Supply and Sanitary Board to be started and constituted for the purpose. The Project is likely to be taken up for execution immediately and is proposed to be completed in a period of 4 years. It is intended to appoint Consultants for these works whose functions will be broadly as follows:

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If you are interested in the above, please reply immediately with your past experience in the above fields with particular reference to (Prestressed concrets) Transmission lines. Detailed negotiations will be conducted with the selected consultants. It is anticipated that a Consulting Firm will be settled for final negotiations by Mid Summer 1964.

Issued
Dated...

Truly Yours,

(CHANDAPPA PATEL),
SECRETARY TO GOVERNMENT,
PUBLIC WORKS & ELECY. DEPARTMENT.

GOVERNMENT OF MYSORE

PWD/141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 20-5-1964.

FROM

Secretary to the Government of Mysore,
Public Works and Elecy.Department.

To

M/s. James Maclaren Ltd.,
Consulting Engineers,
Toronto, Canada.

Dear Sirs,

An Integrated Water Supply and Sanitary Scheme for Bangalore estimated to cost 250 Million Rupees, is proposed to be taken up for execution immediately with the aid of the World Bank. A very brief description of the Scheme is given below:

Bangalore is the Capital of Mysore State. Its elevation is 3,000 feet. It is known for its salubrious climate and is one of the Chief Centres of Industrial, Commercial and Educational Importance. It is well served by Air Mail and Road and Rail Communications facilities. The population of the City as per 1961 Census was 1.2 million. It is anticipated that the growth of the City will be very rapid once it is provided with adequate power and water, the two handicaps under which the City is suffering actually at present. The City is currently getting a supply of 30 Million Gallons per day from the existing sources.

Proposed Scheme:

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4. Sumps, Pumphouses and Pumping Machineries suitable to pump 60 Million Gallons per day against a static lift of about 1,000 feet.

5. Remodelling the existing Water Supply Distribution System.

6. Remodelling the Sewerage system and installation of Primary Treatment units.

The total cost of the Scheme is approximately 250 million rupees. All the above works will be executed under the agencies of a Water Supply and Sanitary Board to be started and constituted for the purpose. The Project is likely to be taken up for execution immediately and is proposed to be completed in a period of 4 years. It is intended to appoint Consultants for these works whose functions will be broadly as follows:

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Management assistance to the new Board is also sought. This might be by a full time works administration Adviser for an appropriate purpose. Accounting assistance is expected to be available locally. Such services may be provided with Engineering services or under a separate contract.

If you are interested in the above, please reply immediately with your past experience in the above fields with particular reference to (Prestressed concrete) Transmission lines. Detailed negotiations will be conducted with the selected consultants. It is anticipated that a Consulting Firm will be settled for final negotiations by Mid Summer 1964.

Truly Yours,

Issued
Dated 20/5/64

(CHANDAPPA PATEL)
SECRETARY TO GOVERNMENT
PUBLIC WORKS & ELECTRICITY

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Dated 20/5/64

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GOVERNMENT OF MYSORE

No. PWD 141 GTW 62.

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 20th May. 1964.

FROM

Secretary to the Government of Mysore,
Public Works & Elecy.Department.

To

M/s. Binnie & Partners,
Artillery Mansions, Artillery Road,
Westminster, London, S.W.I.,
United Kingdom.

Dear Sirs,

An Integrated Water Supply and Sanitary Scheme for Bangalore estimated to cost 250 Million Rupees, is proposed to be taken up for execution immediately with the aid of the World Bank. A very brief description of the Scheme is given below:

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Proposed Scheme:

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4. Sumps, Pumphouses and Pumping Machineries suitable to pump 60 Million Gallons per day against a static lift of about 1,000 feet.

5. Remodelling the existing Water Supply Distribution System.

6. Remodelling the Sewerage system and installation of Primary Treatment units.

Continued .....

The total cost of the Scheme is approximately 250 million rupees. All the above works will be executed under the agencies of a Water Supply and Sanitary Board to be started and constituted for the purpose. The Project is likely to be taken up for execution immediately and is proposed to be completed in a period of 4 years. It is intended to appoint Consultants for these works whose functions will be broadly as follows:

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Issued
Dated 20/5/64

Truly Yours,

(CHANDAPPA PATEL)
SECRETARY TO GOVERNMENT,
PUBLIC WORKS & ELECTRICITY DEPTT.

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62.

MYSORE GOVERNMENT SECRETARIAT
VIDHANA SOUDHA,

Dated, Bangalore, 20th May, 1964

FROM

The *Secretary to the Government of Mysore,*
Public Works & Electricity Department.

To

M/s. Tahal (Water Planning Inc.),
Tel Aviv, ISRAEL.

Dear Sirs,

An Integrated Water Supply and Sanitary Scheme for Bangalore estimated to cost 250 Million Rupees, is proposed to be taken up for execution immediately with the aid of the World Bank. A very brief description of the scheme is given below:

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5. Remodelling the existing Water Supply Distribution System.

contd....

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62.

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

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contd.....

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Truly Yours,

(CHANDAPPA PATEL)
SECRETARY TO GOVERNMENT,
PUBLIC WORKS & ELECTRICITY DEPARTMENT

Issued
Dated...20/5/64

GOVERNMENT OF MYSORE

No. PWD/141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 20th May, 1964.

FROM

The *Secretary to the Government of Mysore,*
Public Works & Electricity Department.

To

M/s Vattenbyggnadsbyraan,
Humlegaardgatan,
29 - Stockholm.

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Contd...P.

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Truly Yours,

(CHANDAPPA PATEL),
Secretary to Government,
Public Works & Electricity Departmen

Issued
Dated 22/5/64

GOVERNMENT OF MYSORE

No. PWD/141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 20th -5- 1964

FROM

Secretary to the Government of Mysore,
Public Works & Electricity Department.

To

1. Black and Veatch Inco.,
1500 Leadow Lane, Kansas City,
Kansas, U.S.A.

2. Hazen and Sawyer Engineers,
360, Lexington Ave, N.Y.17,
New York, U.S.A.

3. James Maclaren Ltd.,
Consulting Engineers, Toronto,
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4. Binnie & Partners,
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contd.....

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3. Pumping main 60" dia. from Treatment plant site to Bangalore about 50 miles long (Prestressed Concrete pipes).

4. Sumps, Pumphouses and Pumping Machineries suitable to Pump 60 Million Gallons per day against a Static lift of about 1,000 feet.

5. Remodelling the existing Water Supply Distribution System.

6. Remodelling the Sewerage system and installation of Primary Treatment units.

The Total cost of the Scheme is approximately 250 million rupees. All the above works will be executed under theagencies of a Water Supply and Sanitary Board to be started and constituted for the purpose. The Project is likely to be taken up for execution immediately and is proposed to be completed in a period of 4 years. It is intended to appoint consultants for these works whose functions will be broadly as follows:-

1. (a) Review thedesign and modify if necessary of transmission mains, treatment plants, pumping Stations.

   (b) Prepare tender documents, for the above works and recommend award.

   (c) Supervise construction for the above works.

2. Prepare functional designs of the Water Distribution and sewerage schemes, direct the detailed design and preparation of tender documents and the supervision of the construction for the same.

3. Advise on operation, maintenance and staffing of the treatment plants and pumping stations. The local services and personnel will be provided by the authority in charge of the execution of the works.

Management assistance to the new Board is also sought. This might be by a full time works administration Adviser for an appropriate purpose. Accounting assistance is expected to be available locally. Such services may be provided with Engineering services or under a separate contract.

If you are interested in the above, please reply immediately with your past experience in the abovefields with particular reference to(prestressed concrete) Transmission lines. Detailed negotiations

Contd.....

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Contd.....

will be conducted with the selected consultants. It is anticipated that a consulting Firm will be settled for final negotiations by Mid Summer 1964.

Truly Yours,

(CHANDAPPA PATEL)
Secretary to Government.,
Public Works & Electricity Department

Copy to Mr. Charles A.Morse Jr., International Bank for Reconstruction and Development, 1818 H.Street, N.W., Washington, U.S.A.

Secretary to Government,
Public Works & Electricity Department.

Issued
Dated ~~20/5/64~~ 64

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Issued
Date.....by

232
2

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Secretary to Government,
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Issued
Dated ~~2-0-1-9~~ 64

232
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Secretary to Government,
Public Works & Electricity Department.

Issued
Dated ~~2-6-64~~ 64

237

Partners:-
G. M. BINNIE M.A., M.I.C.E., M.I.W.E., F.G.S., F.ASCE., M.E.I.C.
R. le G. HETHERINGTON O.B.E., M.A., M.I.C.E., M.I.W.E.
R. T. GERRARD B.Sc.(Eng)., M.I.C.E., M.E.I.C.
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F. S. HARDY C.B.E., B.Sc.(Eng)., M.I.C.E.

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T. G. HAMMOND M.B.E., M.I.C.E., M.I.W.E.
A. C. TWORT B.Sc., M.I.C.E., M.I.W.E.

Secretary:-
COL. R. A. BISHOP

BINNIE & PARTNERS
CHARTERED CIVIL ENGINEERS

ARTILLERY HOUSE · ARTILLERY ROW
WESTMINSTER · LONDON · S W 1

Telephone: ABBEY 6841-5
Telegrams: ARBINTRO, LONDON, S.W.1.
Telex: 24552

722
30 MAY 1964
P.W.D. (RECEIPT & ISSUE SECT.)

OUR REF. PWD 141 GTW 62

OUR REF. ACT/G-31

25th May 1964.

Chandappa Patel Esq.,
The Secretary to Government,
Public Works & Electricity Dept.,
Mysore Government Secretariat,
Vidhana Soudha,
Bangalore,
India.

SECRETARY TO GOVERNMENT
No. 29 MAY 1964
PUBLIC WORKS & ELEC. DEPT.

Dear Sir,

Bangalore Integrated Water
Supply and Sanitary Scheme.

We are honoured to receive your letter of 20th May inviting us to submit particulars of ourselves so that you may select consulting engineers for the above works.

We confirm a cable we sent today indicating that we shall be very pleased to submit these particulars for your consideration and that we should be able to post them in seven days' time.

We have considerable experience of large works of the kind you are proposing, notably in Malaysia and Hong Kong, and we have also undertaken several large schemes partly financed by the World Bank so that we are familiar with their normal requirements and procedures. We were called in by the World Bank last December to advise them on certain contract procedures for internationa tendering.

These and other related particulars are being collated and we shall be pleased to forward them for your consideration.

In the meantime we express our thanks to you for the courtesy of your letter.

Yours truly,
BINNIE & PARTNERS.

A.C.T.

234

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R. le G. HETHERINGTON O.B.E., M.A., M.I.C.E., M.I.W.E.
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Secretary:-
COL. R. A. BISHOP

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722
30 MAY 1964
P.W.D. (RECEIPT & ISSUE SECTION)

YOUR REF. PWD 141 GTW 62

OUR REF. ACT/G-31

25th May 1964.

Chandappa Patel Esq.,
The Secretary to Government,
Public Works & Electricity Dept.,
Mysore Government Secretariat,
Vidhana Soudha,
Bangalore,
India.

SECRETARY TO GOVERNMENT
No. ...
29 MAY 1964
T. 986
PUBLIC WORKS & ELEC. DEPT.

Dear Sir,

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Yours truly,
BINNIE & PARTNERS.

ACT.

JS.

234

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P.W.D. (RECEIPT & ISSUE SECTION) 722 30 MAY 1964 SP/S.7

YOUR REF. PWD 141 GTW 62

OUR REF. ACT/G-31

25th May 1964.

Chandappa Patel Esq.,
The Secretary to Government,
Public Works & Electricity Dept.,
Mysore Government Secretariat,
Vidhana Soudha,
Bangalore,
India.

SECRETARY TO GOVERNMENT No. 29 MAY 1964 T. 986 PUBLIC WORKS & ELEC. DEPT.

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In the meantime we express our thanks to you for the co[illegible] of your letter.

Yours truly,
BINNIE & PARTNERS.

236

Office of the Chief Engineer (General)
P.W.D. in Mysore, Bangalore.

SHRI.K.M.JOSHI,B.Sc.,B.E.,A.M.I.E.,
Chief Engineer(General)PWD.

Dt:May 30,1964.
01 JUN 1964

D.O.No.BWSS/Consultants/64-5.

Encl: One.

SUB:- Integrated Watersupply and Sanitation Scheme for - Bangalore.

SECRETARY TO GOVERNMENT
No. D.O. 935
2 JUN 1964
PUBLIC WORKS & ELEC. DEPT.

MYSORE GOVT. SECRET
No. 736
2 JUN 1964
D. RECEIPT

Dear Shri.Chandappa Patel,

In the meeting held in the Chambers of the Hon'ble Chief Minister on 20th April,1964 when the members of the World Bank Team were present, the procedure to be followed regarding the employment of a consultant for the above Scheme and the formation of a Water and Sewage Board was discussed in detail. Mr. Morse of the World Bank Team had drawn up a Tentative Schedule in respect of the appointment of consultants as well as the formation of the Water and Sewage Board. Copies of these schedules were distributed to the members present in the meeting. It was decided in the meeting that a list of consultants may be obtained from the Ministry of Health,Government of India, and after obtaining approval of the World Bank, the consultants had to be addressed from Government regarding their terms and conditions etc. In this connection, I am to state that the names of the Consultants have been intimated to you by the Ministry of Health,Government of India. A draft letter to be addressed to the Consultants by Government has alr been sent to you in this office letter No.BWSS/WS 64-65 dated 4.5.1964. I do not know if action has been taken already at your end to write to

contd.

238

(International Bank)

International Bank for Reconstruction and Development.

1818 H.Street,N.W. WASHINGTON 25 D.C.

--

Mr.K.M.Joshi
Chief Engineer(General)
Public Works Department
Bangalore,India.

May 22,'64

Dear Mr.Joshi:

Mr.Mahantannavar and Mr.Rajaram will have told you about their discussions with Mr.Rajagopalan and Mr. Morse in New Delhi concerning the list of engineering consultants, which was to be sent to your office from New Delhi for forwarding to the Bank. Regarding the employment of these consultants a tentative schedule had been drawn up while Mr.Morse was still in Bangalore.(I believe that Mr.Gundappa has a copy.) According to this schedule, your initial list of the consultants who would be invited to send experience records was to be sent to the Bank by April 23,1964, and it was expected that the Bank would reply in time for letters to be sent to the various consulting firms by May 2. As the employment of consultants is a first step in the implementation of the project, everyone recognized that it should be done speedily. Unfortunately, we are already a mongh behind the original timetable.

The Chief Minister had proposed to Mr.Mose and Mr.Doolan that the bill establishing the water and sewage authority would be submitted to the State legislature this summer. Since the bill is to be passed during the summer session, it will be necessary for it to be reviewed soon, and a tentative schedule worked out by Mr.Morse and Mr.Gundappa aimed at the final draft being reviewed by the Mysore State authorities and sent to the Bank by May 15.

We hope that these two matters can be put in hand promptly since we consider them essential to the proper implementation of the project.

Very truly yours,

Sd/ D.W.Jeffires
Deptt. of Operations
South Asia & Middle East

/copy/

K.V. Gundappa
for Chief Engineer(Gl)

bvs/

Appendix F. G.—1]

SUBJECT ..... Long Range Water supply to Bangalore Cauvery Scheme

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 196 .

Date of issue.....

Signed by .....

1) Vattenbyggnadsbyran (2)
2) James F MacLaren Ltd (1)
3) Harzen & Sawyer (1)
4) Bennie & Partners (2)
5) Consulting Engineer New York (2)
6) Tahal (Water planning) Ltd. (1)
7) Black & Veatch. (1)

List of enclosures.....(10)

Copied by.....

Examined by.....

Section

File No.

Serial No.

No.

To The C.E. (G), Bangalore

I am directed to forward herewith (10) Ten brochures received from various Firms and request you kindly to offer your remarks early.

J. F.
23/6/66
U.S. to Govt
P.W.D

Pearson
23/6

WD 012116—GPB—4,00,000—7-3-63

240
1

GOVERNMENT OF MYSORE
Mysore Government Secretariat,
Public Works Department,
Vidhana Soudha,
Bangalore, Dt. 24th June '64.

No.PWD 141 GTW 62.

enclosed (10) brochures.

From

The Secretary to Government,
Public Works Department, Bangalore.

To

The Chief Engineer(General),
Bangalore.

Sir,

Sub:-Long Range Water Supply to Bangalore
Cauvery Scheme -

Issued
24/6/64

I am directed to forward herewith ~~(8)~~ 10 (Ten) brochures received from various Firms and request you kindly to offer your remarks early.

1) Valtenbyggnadsbyran (2)
2) James F. Maclaren Ltd. (1)
3) Hazen and Sawyer (1)
4) Binnie & Partners (2)
5) Consulting Engineers New York (2)
6) Tahal (Water planning) Ltd (1)
7) Black & Veatch (1)

Yours faithfully,

Under Secretary to Govt.,
Public Works Department.

O/C

24/6

ACA/

4/31/64 242

Mysore Government Secretariat | File No. of 195 | [App. F. III 2

Serial No.

SECRETARY TO GOVT. 4/31/64 23 JUN 1964 PUBLIC WORKS DEPT.

For the moment we wanted only experience & details of works handled by the firm & not definite proposals. The firm seems to be under a misunderstanding.

Now it is rather too late, as all other 5 firms have sent their experience details & we may have to approach some of them for ascertaining their terms.

We may reply them :—

WE WANTED ONLY DETAILS OF EXPERIENCE & WORKS HANDLED. ITS TOO LATE NOW.

23.6.64
J.S.

SECRETARY TO GOVERNMENT PWD 8/4257 23 JUN 1964 4257 PUBLIC WORKS & ELEC. DEPTS.

Seen.

PWD 408 ID/SPL 66
25/6/64

Sri MMH

P.S.

We have since received their experience details. We may reply :—

"Your representative may visit Bangalore on 6th July"

24/6/64
J.S.

Seen

Issued on 24-10-64

Note.—Contn. Sheet

L/31/64

File No. of 195 .

Mysore Government Secretariat

Serial No.

Issue reply.

24/6/64

R.P.K.

Issued on 24-6-64.

These papers are returned for being filed in future. PWD 141 GTW 62

25/6/64.

Supd) 25/6/64
Spl.)

25/6/64

143244

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

B. No.

Received	Sent at	Circuit Number
From	To	
	By	

SECRETARY TO GOVERNMENT 20 JUN 1964 PUBLIC WORKS & ELEC. DEPT.

LT 1990 NDR 240 TELAVIVJAFFA 19 JUN

22/24 LT RPRS 15.35P CHANDAPPA

PATEL GOVERNMENT SECRETARY PWD BANGALOREINDIA

REGRS 20TH ULTIMO REGARDING APPOINTEMENT

WATER SUPPLY AND SEWERAGE CONSULTANTS PLEASE CABLE

WHETHER OUR REPRESENTATIVE CAN VISIT BANGALORE

SIXTH JULY TO OBTAIN ADDITIONAL PARTICULARS FOR

MISSION OUR PROPOSAL BY END JULY STOP IF THIS

DATE PLEASE CABLE DEADLINE STOP OUR CABLE

ADDRESS ISWATPLAN TELAVIV TAHAL

ISWAT PLAN
TELAVIV
TAHAL

REURTEL Nineteenth ~~ultimo~~ YOUR
REPRESENTATIVE MAY VISIT
BANGALORE ON SIXTH JULY

SECRETARY
Public WORKS

J. Sayegh
PRO

2647
280

Partners:-
G. M. BINNIE M.A., M.I.C.E., M.I.W.E., F.G.S., F.ASCE., M.E.I.C.
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Telex: 24552D

Secy
4 JUL 1964
P.W.D. (RECEIPT & ISSUE SECT.)
6 JUL 1964
(RECEIPT)
Spl. S. 9
YOUR REF.
OUR REF.
SECRETARY TO GOVERNMENT
No. M 1095
4 JUL 1964
PUBLIC WORKS & ELEC. DEPT.

End Asks P
4th June 1964

Cmm 2048/64

Reply due after returning to me

Dear Chief Minister,

I am very that I have been unable to make an appointment to meet you officially. On Friday morning I was stricken down with 'flu and a temperature of 104! I am well again to-day but we fly home to-morrow.

Engineers who had gone with the gentleman mentioned

I could not very well explain, at dinner at Raj Bhavan, that I was in Bangalore on behalf of a top rate firm of Consulting Engineers, BINNIE and Partners, who have asked to be considered for the new Bangalore Water Supply and Sewage project. I am a friend of one of the Partners, who also served with the Madras Sappers during the War and has a soft place in his heart for Bangalore.

Secy (PWD) may kindly ascertain and get a report from the Engineers concerned.

S. Venkat 1/7
PS to CM

I have no financial interest in the firm but, at my friend's request, I agreed to act as forerunner to the Senior Partner, Mr. Hetherington, who arrived on Thursday. I was able to make some appointments for him and give him a

Secy (PWD)

Sri. MNH

Partners:-
G. M. BINNIE M.A., M.I.C.E., M.I.W.E., F.G.S., F.ASCE., M.E.I.C.
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F. S. HARDY C.B.E., B.Sc.(Eng)., M.I.C.E.

Consultants:-
G. A. R. SHEPPARD M.A., M.I.C.E., M.I.W.E.,
A. RYLANDS THOMAS O.B.E., B.Sc.(Eng)., M.I.C.E., F.ASCE.

Associates:-
A. L. LITTLE B.Sc.(Eng)., M.I.C.E., M.I.STRUCT.E.
C. F. COLEBROOK T.D., Ph.D., B.Sc.(Eng)., M.I.C.E., M.I.W.E.
A. C. BUCK M.Sc.(Eng)., M.I.C.E., M.N.Z.I.E.
D. M. WILLIAMS M.A., M.I.C.E.
T. G. HAMMOND M.B.E., M.I.C.E., M.I.W.E.
A. C. TWORT B.Sc., M.I.C.E., M.I.W.E.

Secretary:-
COL. R. A. BISHOP

BINNIE & PARTNERS
CHARTERED CIVIL ENGINEERS

ARTILLERY HOUSE · ARTILLERY ROW
WESTMINSTER · LONDON · S W I

Telephone: ABBEY 6841-5
Telegrams: ARBINTRO, LONDON, S.W.I.
Telex: 24552

YOUR REF.

OUR REF.

prices of the scheme. An officer of your Chief Engineer's department has taken him to Shivacamundram and to the key points in Bangalore and he is now well apprised of the project. This reconnaissance will, of course, enable the firm to make a quick start on the project, should they be selected.

You will understand what a pleasure it has been for my wife and for me to revisit Bangalore, meet so many old friends and high officials in the State.

It was a great pleasure to meet you.

Yrs Sincerely

J. F. D. Steedman

Major General. J. F. D. STEEDMAN

Appendix F. C.—1]

SUBJECT ..... As on page 240 .....

Diary No. of letter replied to..... .....

Mysore Government Secretariat.

( )

the *196* .

Date of issue.....

Signed by.....

List of enclosures.....

Copied by.....

Examined by.....

Section

File No.

Serial No.

No.

To The C.E. (G) Bangalore.

I am directed to invite attention to the Govt letter of even no. number 5/24-6-64 on the above subject and to request you to expedite your report in the matter early

J. F.
U.S. to Govt
P.W.D

Please
7/7 8/7/64

Issued on
10-7-64

GOVERNMENT OF MYSORE

No. PWD 141 UTW 62

Mysore Government Secretariat,
Public Works Department,
Vidhana Soudha,
Bangalore, Dt. 9-7- 1964.

From
The Secretary to the Govt. of Mysore,
Public Works & Elecy.Department.

To
The Chief Engineer (General),
BANGALORE.

Sir,

Sub:.Long Range Water Supply to Bangalore -Vauvery Scheme:

I am directed to invite attention to the Government letter of even Number dated 24-6-1964 on the above subject and to request you to expedite your report in the matter early.

Yours faithfully,

(K.C.Bothe),
Under Secretary to Government,
Public Works Department.

INVEST WISELY NATIONAL SAVINGS CERTIFICATES

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

PWS/A/20/64

Class Prefix } ... Code ... No.

Recd from C. No. ... Sent at ... H ... M. Office-stamp

By ... To ...

By ...

SECRETARY TO GOVERNMENT 8 JUL 1964 PUBLIC WORKS & ELEC. DEPT.

Handed in at (Office of Origin)	Date	Hour	Minute	Service Instructions	Words
XF 1415 MR 24 TELAVIVJAFFA 7 22 CHANDAPPA					M.

PATEL GOVERNMENT SECRETARY PUBLIC WORKS BANGALORE (INDIA)

PLEASE INFORM MR BALABAN TAHAL YOURCAB MISPRINTED CABLE WHETHER ARRIVING FRIDAY AIRFRANCE OR 30AC = ISWATPLAN =

Supdt Spl.Sec

8/7/64

Bharathi Press, Vellore-Ptg/34/C-Books/63 dated 30-11-63 25,000 Bks

258

Office of the Chief Engineer (General)
P.W.D. in Mysore, Bangalore.

No.BWSS/con/1964-5. D/ 15 JUL 1964

Encl:- 1 Book Price

To

The Secretary to Government,
Public Works Department,
Bangalore.

Sir,

959
15 JUL 1964
P.W.D. (REC'D)
Spl.5.9
Sri. MMJ.

Sub:- Integrated Watersupply and Sanitation Scheme to Bangalore - appointment of consultants -- reg.

--

Ref:- Government letter No.PWD 141 GTW 62 dated 24th June 1964.

--

Government approached the following 6 Firms with a view to obtaining information regarding their experience etc, in respect of Water and Sewage works:-

MESSRS.

1) JAMES F. MacLAREN LIMITED, Toronto, London, Canada.
2) HAZEN AND SAWYER, 360 LEXINGTON AVENUE, New York 17. U.S.A.
3) BLACK & VEATCH INTERNATIONAL, Kansas City 14, MISSOURI, U.S.A.
4) VATTENBYGGNADSBYRAN(VBB), Stockholm 5, SWEDEN.
5) BINNIE & PARTNERS, ARTILLERY HOUSE, ARTILLERY ROW, WESTMINISTER, LONDON.
6) TAHAL(Water Planning) LIMITED, ISRAEL.

All of them have furnished printed brochures and other literature regarding their experience in the field. In general, it is to be stated that all the firms seem to be of high repute with wide experience in the field and hence, they are in the approved list of the World Bank. However, a close examination of their relative experience, reveals the following facts:-

1) Messrs. James F. Mac LAREN Ltd. London, Canada.

They seem to have designed rising mains for watersupply of 36" to 48" in

(contd.2/

xxx
15/7/64

in Diameter. There is no indication that they have done anything higher.

2)Messrs. Hazen and Sawyer,New York, U.S.A.
--

From their brochure it cannot be made out if they have designed and supervised construction of large high head pumping Stations with large diameter Pipes either in Steel or - concrete. However, they appear to have done quite a considerable number of treatment works for watersupply and Sewage disposal.

3)Messrs. Black & Veatch International, Missouri,U.S.A.
--

They seem to have had experience in laying concrete cylinder type pipes of 72" diameter upto a head of about 300 to 350 ft.

4)Messrs.VATTENBYGGNADSBYRAN,SWEDEN.
--

They appear to have had experience of medium sized works involving 60" to 70" diameter Concrete Pipes for a supply of 40 to 50 million gallons of water per day.

5)Messrs.BINNIE & PARTNERS,LONDON.
--

They have to their credit a large number of works of varying sizes. Their biggest and the latest work appears to be in respect of watersupply to Singapore, Malaysia, where they are laying 17 miles long 66" diameter prestressed concrete

contd..3)

concrete and Steel Pipes for 60 M.G.D. against a total head of 600 ft. It is gathered that they allow for water hammer of about 40 per cent extra over working head. For instance in the case of Singapore Watersupply, they have provided 175 ft. for water hammer over and above the working head of 425 feet or so.

6)Messrs. TAHAL(Water Planning)LTD, ISREEL.

They seem to have to their credit works concerning laying of large diameter Pipes of considerable lengths as follows:-

Diameter.	Length.
24" dia.	14 Miles.
30 & 36"	24 miles.
48" dia.	28 miles.
66" dia.	60 miles.
60" dia.	41 miles.
108" dia	48 miles.

They have designed their pipes up to 425 ft. head which is roughly the same as the one obtaining in our case. Their practice of allowing for water hammer appears to be more sophisticated. They believe in controlling and suppressing water hammer by special gadgets.From the discussions we had with them, they do not appear to allow more than about 12½ per cent for water hammer, after providing gadgets.

From the above it can be seen that:-

a) the first three firms which are from Canada and U.S.A. do not appear to have the

contd.4/-

have the experience of having laid large size pipes for long lengths for a huge head as is obtaining in our case; and

b)All things being equal, the three American Firms would also charge much more than the European or Israely firms, since their Pay-structure is very high.

From the above considerations, it would be safe to forget these three firms(sl.Nos. 1 to3 above) for our purpose.

Among the remaining three firms, Sl.No.4, the firm from Sweden, do not appear to have had any experience of having designed large size pipe-line work, comparable to ours. Therefore, it might be safe to delete this firm also from our considerations.

This leaves us with only two firms viz. Messrs. Binnie & Partners,London and Messrs. TAHAL(Water Planning)Ltd, Israel(at Sl.Nos. 5 and 6 above) who seem to have had sufficiently vast experience which could be of great use on our works. Fortunately for us, the representatives of both these two firms have paid a visit to our works and had a rough idea of our scheme. During their visit, we made it quite clear to them that we have practically completed the design and planning of the scheme and what we expect of our consultants is only by way of improvements thereon and any modifications to that effect which could be effected by our own staff under the guidance of the consultants. In view of this fact, it is expected that both these firms would not demand the full pound of flesh viz. 5 per cent, but be in a

contd...5

but be in a position to quote considerably less. Therefore, if we are to decide the issue by calling for bids from these two firms, it should be possible to fix upon the lower of the two.

However, the only thing that appears to come in the way of this procedure being following is the American convention in apointing the consultants, which are prescribed by the World Bank, vide their Phamphlet in this respect received from the World Bank(Flag 'A'.) The convention prescribed is that we should make a preliminary choice of the consultants through a consulting firm and request them to appear for negotiations and settle all the terms to mutual satisfaction. If this fails, we should then aproach a second firm of our choice. It is presumed that the World Bank may not like any departure from this procedure.

Under these circumstances, it is for consideration if the Government may approach any one of the following two firms in the first instance:-

1) Messrs. BINNIE & PARTNERS,ARTILLERY HOUSE, ARTILLERY ROW, WESTMINISTER,LONDON.

2) Messrs. TAHAL(Water Planning)Limited, TEL-AVIV, ISREEL.

A draft letter to be addressed is placed below.

Yours faithfully,

(S. G. Balekundry)
CHIEF ENGINEER(GENERAL) P.W.D.

Encl:1)Draft letter.
2)Project Report.
(being sent separately)
3) Consulting Engineers A guide to the engagement of Engineering services.

14/7/64

bvs/

[illegible] (General)
[illegible] Bangalore

DRAFT LETTER TO BE ADDRESSED TO:

Messrs. _____

_____

Government of Mysore.

No.

Mysore Government Secretariat
Public Works & Electy.Deptt.,
Vidhana Soudha,Bangalore.

Dt:

To

Messrs._____

_____

Sub:- Integrated Watersupply and Sanitation Scheme to Bangalore City.

Ref:- 1) *

2) Your letter No. (**)

*Govt.even letter No.& date addressed to the firms may pl. be inserted here.

**The relevant firm's letter No.& date may be inserted here.

Sirs,

With reference to your letter cited at (2) above, I am directed to inform you that our Government will be pleased to consider the appointment of your firm as consultants for the above mentioned scheme. It is understood that the representatives of your firm have already paid a visit to Bangalore and had a first-hand knowledge of the project, as already drawn up by our Engineers. I am enclosing herewith a copy of the project-reports for your reference.

In this connection, I am to add here that you were appraised of the fact that our Engineers have already made detailed Plans and Designs for the work and we expect you to review the same with a

contd. 2/ -pto

with a view to improve the project by introducing necessary modifications wherever considered necessary. Even in so doing, it is felt, our Engineers would work out the details of such modifications. Regarding Tenders and Specifications your suggestions and guidance would be essential.

Similarly, regarding the supervision of the work during the course of execution, management ~~and~~ of the completed system, we have got adequate personnel. It is expected of the consultants to provide an over-all guidance to our supervisory staff.

Under these circumstances, I have to request you to inform us the detailed terms on which you might be prepared to undertake this assignment. If you consider it necessary to pay a visit for further negotiations, you are welcome.

Yours faithfully,

Encl: PROJECT REPORTS.

CE(H)

bvs/

Copy to Mr D.W. Jeffries
~~International Monetary Bank~~
~~Washington~~ Dept of operations
South East Asia + Middle East
International Bank for Reconstruction and development
1818 H Street N.W.
Washington 25 D.C.

Subject:- Metropolitan Water Supply and Sanitation Scheme for Bangalore - appointment of Consultants -

268

To

The Chief Engineer (P), Nilgiris

Sir,

I am directed to refer to your letter no. BWSS/Con/1964-5 dt. 15.7.1965 on the above subject and to request you kindly to place this matter before the Technical Sub-Committee for examination & furnish their considered opinion as to which of the firms should be selected as Consultants.

The records received with your letter under reference are returned herewith for reference and retransmission along with the ~~Committee~~ report of the Technical Sub Committee

3.8
10/8/65
for

GOVERNMENT OF MYSORE

No PWD./141 GTW-62
with Sewa

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 11th Aug. 1964.

FROM

Secretary to the Government of Mysore,
P.W. & Electricity Department.

To,

The Chief Engineer (General),
B a n g a l o r e.

Sir;

SUB: Integrated water Supply and Sanitation scheme to Bangalore - appointment of consultants.

I am directed to refer to your letter No. BWSS/Con/1964-5 dated 15th July, 1964 on the above subject and to request you kindly to place this matter before the Technical Sub-committee for examination and forward their considered opinion as to which of the firms should be selected as consultants. The records received with your letter are returned herewith for reference and retransmission along with the report of the Technical Sub-committee.

Yours faithfully,

ISSUED
Dated 11/8/64

11/8/64

(K.C. Bothe)
Under Secretary to Government,
P.W. & Electricity Department.

BLACK & VEATCH INTERNATIONAL
CONSULTING ENGINEERS

TELS 80101-62, 63, 48, 49
CABLE ADDRESS BLACVEATCH

HOME OFFICE
P.O. BOX 8405
KANSAS CITY 14, MISSOURI, USA

6TH FLOOR EPWAPDA BLDG.
P.O. BOX 311
RAMNA, DACCA 2, EAST PAKISTAN

Ref: 64/1409

August 4,1964.

F3535 PB

Mr. Chandappa Patel
Secretary to Government
Public Works and Electricity Authority
Government of Mysore
Bangalore, Mysore, India.

SECRETARY TO GOVERNMENT
518/PD/8/64
11 AUG 1964
PUBLIC WORKS & E. D.

Dear Mr. Patel:

In accord with my letter to you dated July 25, 1964, I am planning to visit Bangalore in connection with the invitation we received from you under date of May 20, 1964 on the proposed water improvement program for Bangalore.

My current plan is to arrive in Bangalore on Tuesday evening August 11 and spend Wednesday and part of Thursday in Bangalore. There probably isn't sufficient time for a return reply and I am therefore taking the liberty of requesting an appointment with you for any convenient time on Wednesday, August 12.

Mr. Robinson, President of Black & Veatch International wrote to you on May 30, 1964 and again on June 8, 1964. With his letter of June 8 he transmitted an extensive brochure covering Black & Veatch International's broad experience of many years in exactly those areas of technical design and total project management that you outlined in your invitation of May 20. I trust that this information has been received and that it has been of value to you in the evaluation of our capabilities. We do not hesitate to state that our firm has probably prepared plans and specifications for more pipe line projects involving the construction and installation of prestressed concrete pipe than any firm in the USA or the world. Black & Veatch have been in the water supply engineering field for over 50 years in all areas of management, studies, project design, administration and construction supervision. We feel preemitely qualified to carry out the works for your improvement program.

I'm looking forward to meeting and visiting with you next Wednesday and with any one else in the administrative and technical staff who may be interested in further personal review of our qualifications.

Yours very truly,
Black & Veatch International,

Allen M. Acheson,
Executive Vice-President.

AMA:Maq.

cc: T. B. Robinson, President.

272

NATIONAL SAVINGS CERTIFICATES

INDIA — TELEGRAPHS DEPARTMENT

516

Class Prefix } .....Code .....

No.

C

Recd. from .....

By .....

Sent at .....H.....M.

To .....

By .....

Office stamp

Handed at (Office of Origin)	Date	Hour	Minute	Service instructions	Words

TO

Recd. here at H. M.

O 1150 132 DACCA 12 49/50 MR CHANDAPPA PATEL SECY TO GOVT PUBLIC WORKS AND ELECTRICITY AUTHORITY GOVT OF MYSORE BANGALORE = UNAVOIDABLY DELAYED IN TRIPE TO BANGALORE STOP PLAN TO VISIT YOU ON MONDAY AUGUST 17 AND REQUEST AN APPOINTMENT YOUR CONVENIENC THAT DAY OR FOLLOWING DAY = ALLEN M ACHESON BLACK WEATCH INTERNATIONAL CO =

Bharathi Press, Vellore-B 25,000 Bks

Express Telegram

Allen M. Acheson Black watch
Tea Co ~~Ramna~~
Ramna, DACA. 2.
East-Pakistan.

—

Your Telegram of 12th
August - Stop - ~~No Appointment~~ Not necessary
to visit Bangalore ~~or~~ Secunderabad
~~Journey~~ ~~Stop~~.

Pvt Sec.
14/8/64
USPKD

Copy in Confirmation.
to
i) Jimmi
ii) C.E.(P) of the Transformation

Issue today
14/8/64

274/1

TELEGRAM STATE EXPRESS.

ALLEN H ACHESON BLACK WEATCH INTERNATIONAL CO (.)
RAMNA DACCA 2 EAST PAKISTAN

YOUR TELEGRAM OF 12TH AUGUST [redacted]OP

NOT NECESSARY TO VISIT BANGALORE SEVENTEENTH

WORKSEC

Not to be Telegraphed.

Sd/-

(K.C. Bothe),
Under Secretary to Government,
Public Works Department, (Ser.C.& Spl.Irrn).

No.PWD 32 BRA 63.

Mysore Government Secretariat
Vidhana Soudha,
Bangalore, Dated the 14th August, 1964.

Copy in confirmation to :-

1) Black & Veatch International
Consulting Engineers,
6th Floor Epwapda Bldg., P.O.Box.311,
Ramna. Dacca 2, East Pakistan.

2) Chief Engineer (General), Bangalore for information.

ISSUED
Dated 14/8/64

(K.C.Bothe),
Under Secretary to Government,
Public Works Department,
(Services-C. and Spl. Irrigation).

(murthy-6cs).

274/2

TELEGRAM STATE EXPRESS.

O=O=O=

Most Urgent

No. Dw8/Con/64-5
Encl: one

Office of the Chief Engineer (General)
P.W.D., P.B. No. 40, Bangalore-1.
Dated the 18/8/64

MYSORE GOVT. SECRETARIAT
No. 1186
18 AUG 1964
P.W.D. (RECEIPT & ISSUE SECTION)

The Secretary to Government,
Public Works Department,
Bangalore.

Sub: Integrated Water Supply & Sanitation Scheme to Bangalore City - Appointment of Consultants.

In the meeting of the Water Supply and Sanitation Control Board, it was decided that M/s. Tahal, Israel, may be invited for negotiations prior to being appointed as Consultants for the above project. I request that the firm may please be addressed to come over to Bangalore for negotiations. A draft letter to be addressed to the firm is enclosed.

Yours faithfully,

(B.G.Balekundry),
Chief Engineer (General).

mkg.17/8.

276/T

GOVERNMENT OF MYSORE

Shri. Chandappa Patel, I.A.S.,
Secretary to Government,
Public Works Department.

Mysore Government Secretariat,
"Vidhana Soudha",
Bangalore-1, dated

Contd. enclosures

To

M/s. Tahal (Water Planning), Ltd.,
54, IBN GVIROL Street,
P.O.B. 11170,
TEL-AVIV, ISRAEL

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore City - Appointment of Consultants -

---

Gentlemen,

Govt.even letter No. & date addressed to the firms may please be inserted here.

The relevant firm's letter No. & date may be ~~xxxxx~~ inserted here.

Ref: 1) * This State-free letter No. PWD 141 GTW 62 dt 20-5-66

2) ** your telegram dated 8.7.66.

With reference to your letter cited at (2) above, I am directed to inform you that our Government will be pleased to consider the appointment of your firm as Consultants for the above mentioned scheme. It is understood that the representatives of your firm have already paid a visit to Bangalore and had a first-hand knowledge of the project, as already drawn up by our Engineers. I am enclosing herewith a copy of the project reports for your reference.

In this connection I am to add here that you were apprised of the fact that our Engineers have already made detailed plans and designs for the work and we expect you to review the same with a view to improve the project by introducing necessary modifications wherever considered necessary. Even in so doing, it is felt, our Engineers would work out details of such modifications.

Regarding tenders and specifications your suggestions and guidance would be essential.

Similarly, regarding the supervision of the work

P.T.O.

work during the course of execution and management of the completed system, we have got adequate personnel. It is expected of the Consultants to provide an over-all guidance to our supervisory staff.

I am ~~you are~~ therefore requested ~~to depute~~ that you Representatives be directed to go over to Bangalore for negotiations in this regard. The date of arrival of your representative may please be intimated in advance to the undersigned and to the Chief Engineer (General), New Public Offices, P.B.No.40, Bangalore-1, simultaneously.

Yours faithfully,

Secretary to Government,
Public Works Department,
Bangalore.

mkg.

Copy to C.E. (G) for information.

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 27-8-1964.

FROM

The *Secretary to the Government of Mysore,*
Public Works Department.

To

M/s. Tahal (Water Planning), Ltd.,
54, IBN GVIROL street,
P.O.B. 11170,
TEL-AVIV, ISREAL.

MS-P.258/CE

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore City - Appointment of Consultants.

Ref: 1) This State Govt. letter No PWD 141 GTW 62, dated 20.5.1964.

2) Your Telegram dated 8.7.1964.

Gentlemen,

With reference to your letter cited at (2) above, I am directed to inform you that our Government will be pleased to consider the appointment of your firm as Consultants for the above mentioned scheme. It is understood that the representatives of your firm have already paid a visit to Bangalore and had a first-hand knowledge of the project, as already drawn up by our Engineers. I am enclosing herewith a copy of the project reports for your reference.

In this connection, I am to add here that you were apprised of the fact that our Engineers have already made detailed plans and designs for the work and we expect you to review the same with a view to improve the project by introducing necessary modifications wherever considered necessary. Even in so doing, it is felt, our Engineers would work out details of such modifications.

Regarding tenders and specifications your suggestions and guidance would be essential.

278

No. Bus/64-8
3 Sheets

Office of the Chief Engineer (General)
of Mysore, R.B.No.40,
Bangalore-1, Dated the 17th Aug. 1964.

To

The Secretary to Government,
Public Works Department,
Bangalore.

MYSORE GOVT. SECRET.
No. 1187
18 AUG 1964
P.W.D. (RECEIPT & ISSUE SECTION)

Sir

Sub: 5th meeting of the Water Supply and Sanitation Control Board held at 10 A.M. on 14-8-64 in the Chambers of the Hon'ble Chief Minister of Mysore.

I forward herewith a copy of the proceedings of the above meeting for your information.

Yours faithfully,

(S.G. BALEKUNDRY),
Chief Engineer (General).

mkg.17/8.

228/2

Proceedings of the 5th meeting of the Water Supply and Sanitation Control Board held at 10 A.M. on 14-8-1964 in the Chambers of the Hon'ble Chief Minister of Mysore, Vidhana Soudha, Bangalore.

Members Present:

1. Shri. S.Nijalingappa, Chief Minister of Mysore. ... Chairman
2. Shri. Veerendra Patil, Minister for Public Works. ... Member
3. Shri. K.Puttaswamy, Minister for Municipal Administration. ... Member
4. Shri. K.Balachandran, Chief Secretary to Government of Mysore. ... Member
5. Shri. M.Veeraja Urs, Secretary to Government, Finance Dept. ... Member
6. Shri. Chandappa Patel, Secretary to Government, Public Works Department. ... Member
7. Shri. N.S.Ramachandra, Secretary to Govt., P.H., Labour & Municipal Admn. Department. .. Member
8. Shri. H.Ananthachar, Retired Chief Engineer. ... Member
9. Shri. N.V.Modak, Consulting Public Health Engineer. ... Member
10. Shri. S.G. Balekundry, Chief Engineer (General). ... Member
11. Shri. Rupla Naik, Commissioner, Bangalore City Corporation. ... Member

The agenda for the meeting comprised of the following subjects:

1). Ratification of Technical Sub Committee's proceedings, i.e., subjects (2) and (5)
2) Programme of works to be taken up during the year 1964-65.
3) Appointment of Consultants as recommended by the World Bank.

1. The Technical Sub Committee of the Water Supply and Sanitation Control Board met on 13-8-1964 and considered the two above subjects. The resolutions passed by the Technical Sub-Committee on the two subjects cited above - vide proceedings enclosed - were placed before the Control Board for ratification. These proceedings were ratified subject to remarks under subjects

228/2

subjects (2) and (3) below.

SUBJECT No.2: Programme of works to be taken up during the year 1964-65.

The programme for Rs.1.5 Crores for the year 1964-65 was approved after discussions.

Shri. K.Puttaswamy, Minister for Municipal Administration, stated that it is desirable to undertake sewerage works in the congested localities like Goripalya and Padarayanapura where there are no sewerage facilities at present. The Control Board decided that such areas should be included under the provision of Rs.22.00 lakhs for sewerage works in the programme of Rs.1.5 Crores for 1964-65.

SUBJECT No.3: Appointment of Consultants as recommended by the World Bank.

The resolution of the Sub Committee recommending that M/s. Tahal (Israel) may be invited for negotiations in view of their experience in the (1) design of both steel mains and prestressed concrete cylinder pipe mains for very high heads and for very large supplies and (2) high capacity pumpsets, was accepted by the Control Board.

(S.G.BALEKUNDRY),
Chief Engineer (General)

mkg.17/8.

PROCEEDINGS OF THE V MEETING OF THE TECHNICAL SUB COMMITTEE ON BANGALORE WATER SUPPLY AND SANITATION BOARD HELD ON 13-8-1964.

.....

Agenda for the meeting comprised of the following subjects:

1. Programme of works to be taken up during the current financial year.

2. Appointment of consultants as recommended by the "Word Bank".

I. PROGRAMME FOR 1964-65:

1. At the out set the Chief Engineer (General) explained that the programme of works for Rs.1.5 crores for 1964-65 had been drawn up taking into consideration the fact that the World Bank authorities desired the appointment of a consultant to review the designs and finalise the integrated scheme of Water Supply and Sanitation to the Bangalore City. Only such of the works that are not likely to undergo any modifications by the Consultants have been provided in the programme of works. These works include construction of quarters, procuring and laying small dia. cast iron pipes for the Water Supply distribution system and laying of street and some outfall sewers under the sewerage scheme.

2. Sri. N. Ananthachar, pointed out that even the present Water Supply system is not equitable in as much as the areas in the Southern parts of the City namely Jayanagar and Major parts of Basavanagudi do not get water even for 2 hours in a day. He felt that merdy increasing the size of smaller diameter mains to a minimum of 4" dia. would not give any relief to these portions of the City unless arrangements are made to remove bottlenecks in filling up the zonal distribution reservoirs in these localities.

3. Sri. Modak, also felt that the improvements to the distribution system contemplated in the programme should, not only provide for replacements of 1 1/2" and 2" lines, but also provide for laying feeder mains to the various zonal reservoirs whereever necessary. He also suggested that boosting of water to the low pressure zones may be adopted wherever necessary.

278/4

4. The Chief Engineer (General) explained that the programme contemplated laying of feeder mains and also provide booster pump sets for augmenting the short supply.

5. The Technical Sub Committee then resolved that the programme of works to be taken up during the current financial is approved, subject to the condition that the smaller dia. pipelines of 1" 1½" and 2" should be replaced first, in such of the areas where there is good supply and for the other areas feeder mains should be laid simultaneously replacing 1½" and 2" pipe lines also.

II. APPOINTMENT OF CONSULTANTS:

On the subject of consultants, the Chief Engineer (General) explained the background with regard to the selection of the six consultant firms. These firms had been selected in consultation with the Government of India and the World Bank authorities. All the firms had furnished information in respect of their experience in the field of Water Supply and Sanitation and two of the firms had also sent their representatives to study the project in detail. The Chief Engineer (General) further explained the basis on which he had commented in respect of making a selection out of the six firms. It was also brought to the notice of the Committee that Messrs. Binnie & partners (London) and Tahal (Israel) have experience in the design of both steel pipes and Prestressed concrete cylender pipes and both make provisions in the designs for Water Hammer.

The Committee recommended that M/s. Tahal (Israel) may be invited for negotiations in view of their experience in the (i) design of both Steel mains and prestressed concrete cylinder type mains for every high heads and for very large supplies; (ii) high capacity pumpsets.

CHAIRMAN,
Technical Sub Committee on
Bangalore Water Supply and Sanitation
Board, Bangalore.

kcr.17/8.

280

MYSORE GOVT. 1233 24 AUG 1964 P.W.D. (RECEIPT & ISSUE SECTION)

INGLEDOW KIDD & ASSOCIATES LIMITED

CONSULTING ENGINEERS

KUNDAH PROJECT FIELD OFFICE

POST BOX 29
OOTACAMUND, MADRAS STATE
INDIA

Mr.Chandappa Patel,
Secretary,
Government of Mysore,
Public works and Electricity,
BANGALORE.

File: 101-36-C
August 19,1964.

SECRETARY TO GOVERNMENT GO NO 1209 22 AUG 1964 PUBLIC WORKS & ELEC. DEPT.

Dear Mr.Patel,

Subject: Bangalore Water Supply.

Your may recall that on two occasions I visited you at your office in June 1964 in connection with the Bangalore Water supply Scheme.

At that time I indicated that Ingledow Kidd & Associates Ltd,a Canadian consulting Engineering firm with whom I am associated was interested in the project and wished to submit a tender of qualifications for your consideration.

You were good enough to give your approval for IKAL to make a submission provided the World Bank authorities were consulted and agreement from them was also obtained.

My superiors approached the World Bank on this matter and unfortunately learnt that it is world Bank policy that consultants for their sponsored projects be recommended by the owner.

Although the Bank had deviated from their general policy on this project by already providing a list of six qualified firms in compliance with the Public Works Department request,they were reluctuant at this time to recommend another consultant in view of this policy and because they did not wish to delay the early conclusion of your negotiations for the engineering services.

Ingledow Kidd & Associates contrary to my earlier indications to you will therefore not be submitting a tender on the Bangalore scheme.

Please accept my thanks on behalf of my company for your kind considerations to our request and the time you have given me on my two audiances with you.

If you ever have an opportunity to visit the Kundah Hydro Project please do not hesitate to look me up. It would be my pleasure to show you around the works.

Yours truly,

A.McCarthy,
Senior Canadian Engineer
Kundah Hydro Project.

cc:Mr.K.H.Kidd.,Executive Vice-President,
Vancouver.
Mr.Pavanjit Singh.

AM/EV.

Office of the Chief Engineer (General)
P.W.D., P.B. No. 40, Bangalore-1.

No.BWS/Const/64-65.

Dated: 24 .8.64.

To

The Secretary to Government,
Public Works Department, Bangalore.

1246.

Sir,

Spl.S.9

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore - appointment of consultants.

Ref: Govt.letter No.PWD 141/GTW/62 dated 11.8.64.

With reference to your letter cited above, I write to state that the subject of appointment of Consultants for the Integrated Water Supply and Sanitation Scheme to Bangalore,has been discussed both by the Technical Sub Committee for the Water Supply and Sanitation Control Board as well as the Control Board proper. It has been decided by the Control Board that Messrs.Tahal of Israel may be invited for negotiations.

The file of estimates returned in your letter under reference, is retransmitted herewith for being forwarded to M/s Tahal of Israel, while inviting them to go over to Bangalore for negotiations.

Yours faithfully,

(S.G.BALEKUNDRY)
CHIEF ENGINEER(GENERAL)

GRB/-

25/8/64

Intormed to. Secy/P.W.D. over phone
12/9

284

DS(1).

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XF 1445 MMR 309 TELAVIVJAFFA 11 OCS 36/33

CHANDAPPA PATEL GOVERNMENT SECRETARY PUBLIC SORKS VIDHANA

SOUDHA BANGALORE

I-B018 RECEIVED TODAY ENCOLOSURES TO YOURLETTER B'SS/CAR-94-5

DATED 18 AUGUST BUT LETTER YET OUTSTANDING STOP PLEASES

LADIFY IF NECESSARY AIRMAIL LETTER COPY -BALABAN ISWATPLAN

Subject:
Recommendations from DS (I)
Draft letter is put up for approval.
16/9

14
14-9-64

DS(I)

ISSUED
Dated 16/9/64

Appendix F. G.A.I]

288

SUBJECT ... Bangalore City Water Supply and Sanitation Scheme. Appointment of Consultants.

By Air Mail

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 196 .

Date of issue.....

Signed by .....

Section

File No.

Serial No

No.

To

M/S Dahal (Water Planning) Ltd.
54. Ben. Gvirol Street
P.O.B. 11170.
Tel-Aviv
Israel.

Gentlemen,

I am directed to refer to your cable of 11th Sept. O.C.S. 36/33 on the above subject and to send herewith a copy of letter no 14, ST 062 dt 27.8.1964 as desired.

In this connection I am to inform you that two packets containing the records including letter, plans & estimates of the above scheme have been registered

Legible Copy enclosed

List of enclosures.....

Copied by.....

Examined by.....

and despatched by you on 27-8-1964 by Air Mail separately.
It is perhaps that the
contents envelopes has been
received and that the
contents letter also some
reason may have reached you ~~through~~ by this time.
~~by this time subsequently~~.
However, a copy of letter as
sent for ready reference
the receipt of letter may
please be acknowledged

Y. D.

14/14/9/64

M.S. Litter
[illegible]

Solaban. 1/5 Bol-Plan.

Refer your Cable ~~letter~~ of 11th Sept.
Copy of letter follows by
Air Mail.

14/14/9/64

Lunatic

Copy in confirmation to M/S
Sobat (water-planning) Ltd
52 Ibn Cnirdzi Street.
POB 11170.
Tel-Aviv Israel

Subject: Inter-basin water Supply and Sanitation Scheme for Bangalore City - Appointment of Consultants -

To

M/S. Tahal (water Planning) Ltd
56, Ben Gvirol Street
P.O.B. 11170
Tel. Aviv. Israel.

Gentlemen.

I am directed to refer to your cable from of ~~the~~ 11th Sept O.C.S. 36733 on the above subject and to send herewith a copy of letter no. 141 G.Tw 62 of 27.8.1964 as desired.

In this connection I am to state that two packets - containing the records including letter, plans and estimates of the above scheme have been refabricated and despatched to you on 27.8.1964 by Air Mail separately. It is presumed that

packet containing enclosures has been received first - and that the packet containing letter and also some pieces must have reached you by this time.

However a copy of letter is here herewith - for ready reference.

The receipt of letter may please be acknowledged.

7.2

[illegible]

11

Bala Bon - Kiryat Bialik

Refer your cable from of 11th Sept.

Copy of letter follows by Air Mail.

[illegible]

Copy in confirmation to M/S.
Dolev (Water Planning) Ltd.
52. Ben Gurion Street
P.B. 11170 Tel Aviv Israel.

BY AIRMAIL.

29d
/

GOVERNMENT OF MYSORE

No. PWD/141 GTW 62
Encl. one Copy

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 14 September 1964 .

FROM

The *Secretary to the Government of Mysore,*
Public Works & Electricity Department.

To
Messrs. Tahal (Water Planning), Ltd.,
54, IBN CVIROL Street,
P.O.B. 11170,
TEL-AVIV, ISREAL.

Gentlemen,

Sub:- Integrated water supply and sanitation scheme to Bangalore City - appointment of consultants.

I am directed to refer to your cable gram of 11th September O.C.C. 36/33 on the above subject and to send herewith a copy of letter No.141 GTW 62 dated 27-8-64 as desired.

In this connection, I am to state that two packets containing the records including letter plans and estimates of the above scheme have been registered and despatched to you on 27-8-1964 by Air Mail separately. It is presumed that packet containing enclosures has been received first and that other packet containing letter and also some records must have reached you by this time.

However, a copy of letter is sent herewith for ready reference. The receipt of the letter may please be acknowledged.

ISSUED
Dated 14/9/64

Yours faithfully,
14/9/64
Under Secretary to Govt.P.W.D.

BALA BAN - ISWAT PLAN. Urgent.

REFER YOUR CABLEGRAM OF ELEVENTH SEPTEMBER

COPY OF LETTER FOLLOWS BY AIR MAIL

WORKSEC

(Not to be telegraphed)

Issued 82 14/9/61

(K.C. Botte)
Under Secretary to Govt.
Public Works Department.

to the undersigned and to the Chief Engineer (gl),
New public office P.B. No 40 Bangalore-1
simultaneously.

U.S. to Govt
P.W.D

Hasan
28/9

Appendix F. G.—1]

SUBJECT ..... Integrated water supply and sanitation Scheme to Bangalore City — Appointment of Consultants.

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the *196* .

Date of issue.....

Signed by .....

List of enclosures.....

Copied by.....

Examined by.....

Section

File No.

Serial No.

No.

To M/S. Tahal (water planning) Ltd., 54, IBN GVIROL Street P.O.B. 11170 TEL-AVIV, ISREAL.

Gentlemen,

I am desired to invite reference to this Govt letter of even number dt 27-8-64 and 14-9-64 on the above subject and to request that your ~~that~~ representatives may be directed to go over to Bangalore for negotiations in this regard.

The date of arrival of your representatives may please be intimated in advance to

Subject: Interprovincial water supply and sanitation schemes for Rangalore city:
— appointment of Consultants —

To

M/S
Tahal (water planning) Ltd.
54, IBN GVIROL Street.
P.O.B. 11170
TEL-AVIV. Israel.

Gentlemen,

Please refer to this Ministry's letter no PWD 141 GTW 62 of 27th Sept and subsequent letter of even number dated 14.9.60. on the above subject.

You were requested therein to discuss your Representative to come over to Delhi for negotiations in regard to the execution of the above project.

May I request you as

to when you represent Calcutta
~~with the answer of Bihar~~.
and be expected to be
same to Bihar
An early reply is ~~highly appreciated~~ requested.

3.7
28/9
DS(S)

295

GOVERNMENT OF MYSORE

No. PWD ~~32 BRA 63~~ 141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, ...29-9-.1964.

FROM

Secretary to the Government of Mysore,
Public Works Department, Bangalore.

To

Messrs. Tahal (Water Planning) Ltd.,
54. IBN .GVIROL Street,
P.O.B. 11170,
TEL-AVIV, ISREAL.

Subject: Integrated Water Supply and Sanitation Scheme to Bangalore City-appointment of Consultants.

GENTLEMEN,

Please refer to this State Government letter No.PWD 141 GTW 62, dated 27-8-1964 and subsequent letter of even Number dated 14-9-1964 on the above subject. You were requested therein to direct your Representative to go over to Bangalore for negotiations in regard to the execution of the above project.

May I request you as to when your representative will be expected to come to Bangalore.

An early reply is requested.

Yours faithfully,

30/9/64 29/9/64

(M.CHANNAPPA),
DEPUTY SECRETARY TO GOVERNMENT,
PUBLIC WORKS DEPARTMENT (IRRIGATION).

O/C S
29/9

296

TELEGRAM.

LT 1300 MDR 113 TELAVIVJAFFA 30 OCS 33 LT

M CHANNAPPA PWD GOVERNMENT SECRETARIAT BANGALORE

INDIA

LETTER RECEIVED THAHAL REPRESENTATIVE DORON AND ANSIFELD ZRRIVING TWELTH FOR NEGOTIATIONS THIRTEENTH REGARDING WATER SUPPLY SEWERAGE STAYING WEST END HOTEL STOP PLEASE CONFIRM TIME SUITABLE

ISATPLAN

====

No.PWD 141 GTW 62. Dated Bangalore, 1-10-1964.

Copy of the above telegram forwarded to:

1) the Special Officer, Bangalore Water Supply Scheme, Bangalore and

2) the Chief Engineer, General, Mysore, Bangalore

for information and needful.

Issued
11/10/64

S/C 1/10/64

(M.W.Winston)
Under Secretary to Govt.PWD

EXPRESS TELEGRAM.

ISATPLAN
TELAVIVJAFFA
ISRAEL

- -

PLEASE REFER YOUR TELEGRAM OF THIRTYETH SEPTEMBER(.)
TIME SUITABLE(.)DIRECT REPRESENTATIVE FOR NEGOTIATIONS

~~PUBLIC~~SEC

- -

Copy in confirmation to:

1) Messrs Tahal (Water Planning) Ltd.,
54 IBN Gvirol Street, P.O.B. 11170
Telaviv, Israel.

2)

Copy to: 1) the Chief Engineer, PWD (General) Bangalore

2) Special Officer, Water Supply Scheme, Bangalore

3) the Superintending Engineer, Water Supply and Sanitary Circle, Bangalore

for information.

6/10/64

Issued on
6-10-64

EXPRESS TELEGRAM 298

ISATPLAN
TELAVIVJAFFA
ISRAEL

PLEASE REFER YOUR TELEGRAM OF THIRTIETH SEPTEMBER(.) TIME SUITABLE(.) DIRECT REPRESENTATIVE FOR NEGOTIATIONS

Sd/-
PRINCIPAL SEC

Not to be telegraphed

Sd/-

No.PWD

Mysore Government Secret
Vidhana Soudha,
Bangalore, dated 6th Oct

Copy in confirmation to:

1) Messrs Tahal (Water Planning) Ltd.,
54 IBN Gvirol Street, P.O.B. 11170
Telaviv, Israel.

Issued
Dated 6-10-64

Sd/-

(M.CHANNAPPA),
Deputy Secretary to Governmen
P.W.Department (Irrigation).

Copy to:1) The Chief Engineer, Public Works Department (G
Bangalore.

2) The Special Officer, Water Supply Scheme, Bangalor

3) The Superintending Engineer, Water Supply and Sani
Circle, Bangalore, for information.

M Channappa 6/10/64

(M.CHANNAPPA),
Deputy Secretary to Government,
P.W.Department (Irrigation).

299

INTERNATIONAL BANK FOR
RECONSTRUCTION AND DEVELOPMENT
WASHINGTON 25, D.C.

Mr. K.S. Sundara Rajan

September 24, 1964

Gregory Votaw

INDIA: Procedures for Selecting Consultants at Bangalore

1. On two or three occasions recently the Bank has received calls from consulting firms and member governments concerning the selection of engineering consultants for the Bangalore Water Supply and Sewerage project. In each case the inquirer stated that officials of the Mysore Government had informed them that selection was to be made from a list of firms recommended by the Bank.

2. This suggests a misunderstanding of our usual procedure and the procedure that has been followed in the Bangalore case. The Bank does retain the right to approve the list of firms from which a consultant is to be selected, but the list itself is drawn up by the (prospective) borrower; specifically in this case we objected to one firm on the list prepared by the Mysore Government, because the firm was already serving as a consultant to the Bank in connection with appraisal of the same project. The Bank is not in a position to recommend any firm or list of firms and has not done so in this case.

3. We have been at pains to explain this procedure to consultants as well as to Mysore State authorities. (See for example Mr. Armstrong's letter of July 22, 1964 to Mr. Chandappa Patel, Secretary, Public Works and Electricity Department, Mysore State.) However, since the misunderstanding seems to persist, I would like to request that you take steps to clarify the standard Bank procedure to officials concerned with the Bangalore Water Supply scheme, so that they, in turn, may make clear to prospective consultants that the Bank, while retaining the right to approve the final selection and terms of reference for consultants, is in no position to recommend specific firms for consideration in the first instance. Your assistance in this regard will be much appreciated.

cc: Mr. Chandappa Patel
Secretary
Public Works and Electricity Department
Mysore State Government
Bangalore, India

This question has been settled. The paper may be filed
CC
6/10/67

D01402
7 OCT 1964
MYSORE GOVT
1564
SPC/S.9

LDV

NO.BWSS/CON/64-65

Office of the Chief Engineer
(General) of Mysore, Bangalore-1
Dated 19-10-1964

To

The Secretary to the Government of Mysore
Public Works & Electricity Department
Vidhana Soudha, BANGALORE.1

Sir,

Sub:- Bangalore Water Supply Scheme - Appointment of Consulting Engineers for -

Ref:- Government letter No.PWD 141 GTW 62 dated 27th August 1964, addressed to M/s.TAHAL(Water Planning) ltd., Israel.

This may be submitted to the Chairman W & S Board & W.S.& S Board for administrative approval
19/10

In response to the above Government letter inviting M/s.TAHAL of Israel for negotiations, the representatives of the above Firm had been here from 13th to 19th instants. After holding a series of discussions both with the above Consulting Engineers' Firm and the World Bank Team, the draft agreement enclosed herewith has been hammered out. During these discussions both sri M.Narasimhiah, Technical Member of the Board and Shri H.Ananthachar, a member of the Technical Sub-Committee of the Control Board were associated.

JS (1)
Spl. D. Section
19/10/64.

2. The Technical Sub-Committee had earlier recommended that the entire work of Consultation should be entrusted on a time-scale, i.e., meeting of the expenses of the Firm plus a margin of 15 to 20% profit thereon. However during the negotiations with the Firm, it was found that such a course could be appplied only in respect of (1) Distribution pipes and (2) Sewerage system(excluding the sewage Treatment works). In respect of these works it has been recognised by the firm that the detailed designing and supervision etc., could be done by us and they would be only undertaking the planning and preparing the preliminary project report and assisting us in detailed designing and supervision etc. In view of this, the present draft agreement has provided for payment of fees on a time-scale for these works - vide Clause 2 - II.

3. So far as the major portion of the work is concerned i.e., the Main transmission lines, pumping houses, treatment plants, both for watering and sewerage and distribution tanks would all have to be worked out in great details by the Consultants and the cost thereof cannot be

properly presented since it involves a great deal of work in their Head-office. Therefore they prefer that the fee thereof should be on a percentage basis as per the British Standards. However, the work involved in planning and preparing preliminary project report for this portion of the work may be done on a time-scale since they would be making use of our planning and data collected by us to some extent. Accordingly, in respect of all such works estimated to cost about 11½ Crores of rupees, Clause 2-I of the Draft Agreement provides for -

(1) a time-scale so far as planning and reporting is concerned and

(2) at 3.2% of the cost plus a lumpsum of Rs. 1.4 lakhs($ 28,560)

Ancilliary works like colony for Housing, Roads, communications and other services etc., are intended to be excluded from the purview of the Consultants, unless we otherwise decide at a later date.

5. It is difficult to state very accurately what would be the exact value of the fees. However, an approximate estimate thereof may be forecast as under, based on the present estimated cost of the works involved:

	Rs. (in lakhs)
1. For important works like transmission line, pumping stations, Trunk Mains for distribution, treatment works etc., estimated to cost Rs. 11.5 Crores:	
a) For Planning and preparing preliminary report @(assumed) 0.5%	5.75
b) For designing and supervision @ 3.2%	36.80
c) Lump sum($ 28,560)	1.45
	44.00
2. Less important works to be given totally on time-scale like distribution pipes, Sewerage system, water reservoirs estimated to cost Rs. 5½ Crores at 2% (approximation).	11.00
3. Out of pocket expenses and unforeseen at 20% of the above.	11.00
Total:	66.00

Thus it will be seen that the total outlay on the Consultants may be about Rs.66.00 lakhs which works out to about 2½% on a project cost of Rs.26.00 Crores.

6. Further action to get the agreement approved by the Water Supply Board and Government of India etc., may please be taken immediately, as it appears that the sanction of World Bank Loan for this project might be dependent on the Consultants' preliminary report on the project.

Yours faithfully,

(S.G.BALEKUNDRY)
CHIEF ENGINEER(GENERAL)

19.10.64

Enclosure:

Draft Agreement
with M/s.Tahal, Israel.

MEMORANDUM OF AGREEMENT made the..... day of 1964 BETWEEN the Bangalore Water works and Sewerage Board(hereinafter called "the Client") of the one part and the Engineering Consortium, comprised of the two firms of TAHAL(Water Planning)ltd., of Tel-Aviv, Israel and Engineering-Science, Inc., of Arcadia, California, USA, known as the Engineering Consortium for Bangalore, with office at Post Office Box 11170, Tel-aviv, Israel(hereinafter called "the Consulting Engineers") of the other part.

WHEREAS the Client has considered the general proposals dated July 1964 entitled "Bangalore Water Supply and Sewerage Scheme" submitted by TAHAL (Water Planning)Ltd., in association with Engineering-Science, Inc., describing certain water supply and sewerage improvements to be constructed at Bangalore(hereinafter called "the Works"), and has requested the Consulting Engineers to undertake and perform the duties hereinafter mentioned which the Consulting Engineers have agreed to do upon and subject to their terms and conditions hereinafter set forth.

1. APPOINTMENT OF CONSULTING ENGINEERS:

The Client hereby appoints the Consulting Engineers and the Consulting Engineers accept the appointment on the terms and conditions hereinafter set forth.

2. DUTIES OF CONSULTING ENGINEERS:

The duties to be performed by the Consulting Engineers are as follows:

I. In relation to the following water supply works - Syphon across Handihalla, Gravity Main, Pre-treatment, Filtration, Reservoirs at Treatment works, Ist Pumping Station, Treatment Plant Buildings, Transmission main, additional pumping Stations, Reservoirs each at the additional pumping stations, and those distribution trunk mains to be built of prestressed concrete, and in relation to the sewage treatment plants in Vrishabhavathi, Koramangala-Challaghatta valleys (including intercepting trunks and outfalls).

Preliminary State:

In-so-far as such work has not already been done, preparing such

drawings, estimates and other Engineering documents as are necessary to enable the developed general proposals for the construction of the works to be submitted for consideration by the Client and to enable him to obtain approval in principle from any Government Department or Public Authority concerned, including as may be applicable in the particular case:

(i) Making a normal topographical survey of the site.

(ii) Initiating and controlling normal soil investigations.

(iii) Investigating available data or information relating to the works.

(iv) Advising the Client on the necessity for any special surveys, investigations or tests referred to in Clause 4 which may be required for the proper design and construction of the Works, arranging for these to be carried out on his behalf and considering and advising on the results of such special surveys, investigations or tests.

(v) Consulting any Architect who may be appointed by the Client in regard to the architectural treatment of the Works and in consequence thereof making such reasonable modifications in the said drawings and estimates for the Works as may be approved by the Client.

B. Design Stage:

(i) Preparing:

(a) Designs and tender drawings,

(b) Specifications and Schedules and bills of quantities, and

(ii) Advising on appropriate conditions of contract, forms of tender and invitations to tender,

as may be necessary to enable the Works to be tendered for or otherwise ordered by the Client.

C. Construction Stage:

The administration of the Contract and the technical control of the construction of Works, including as may be applicable in the particular case(provided, it is understood that construction of all the works will have been completed by 30 June 1970):

(i) Advising the Client on tenders, tenderers, prices and estimates for carrying out the Works. All tenders shall be placed by the Client, except otherwise authorised by the Client in writing. No tender shall be accepted or order placed by the Consulting Engineers except on behalf of the Client and with his authority in writing.

(ii) Advising on the preparation of any Contracts relating to accepted tenders for carrying out the Works.

(iii) Preparing bar bending schedules and any further designs and drawings necessary for the information of the Contractors to enable them to carry out the Works.

(iv) Examine Contractors' proposals and details.

(v) Advising the Client on the necessity for inspection and testing of materials and plant supplied under the Contract and arranging for these to be carried out on his behalf.

(vi) Advising the Client on the appointment of the resident site staff in accordance with the terms and provisions of Clause 9.

(vii) Issuing instructions to Contractors and making such site visits as the Consulting Engineers consider necessary.

(viii) Issuing certificates for payment to Contractors.

(ix) Performing any duties which the Consulting Engineers may be required to carry out under any Contract for the execution of the Works - provided that they shall first have approved that Contract.

(x) Delivering to the Client on completion of the Works such records as are necessary for operation and maintenance.

(xi) Assisting in settling disputes or differences which may arise between the Client and Contractors, excepting litigation and arbitration.

(xii) Preparing manuals of operation for the completed works.

II. In relation to the Water distribution system(excluding trunk lines built of pre-stressed concrete) and to the sewage collection system (excluding intercepting trunks and outfalls).

A. In-so-far as such work has not already been done, preparing such drawings estimates and other Engineering documents as are necessary to enable the developed general proposals for the construction of the Works to be submitted for consideration by the Client and to enable him to obtain approval in principle from any Government Department or Public Authority concerned, including as may be applicable in the particular case:

(i) Making a normal topographical survey of the site.

(ii) Initiating and controlling normal soil investigations

(iii) Investigating available data or information relating to the Works.

(iv) Advising the Client on the necessity for any speial surveys, investigations or tests referred to in clause 4 which may be required for the proper design and construction of the Works, arranging for these to be carried out on his behalf and considering and advising on the results of such special

surveys, investigations or tests.

(v) Consulting any Architect who may be appointed by the Client in regard to the architectural treatment of the Works and in consequence thereof making such reasonable modifications in the said drawings and estimates for the Works as may be approved by the Client.

B. Design Stage:

Provision of assistance and technical guidance(to an extent mutually agreeable to both parties hereto) for:

(i) Preparing:

(a) Designs and tender drawings,

(b) Specifications and schedules and bills of quantities and

(ii) Advising on appropriate conditions of contract, forms of tender and invitations to tender, as may be necessary to enable the Works to be tendered for or otherwise ordered by the Client.

C. Construction Stage:

Provision of advice(to an extent mutually agreeable to both parties hereto) on the administration of the Contract and the Technical control of the Construction of the Works, provided it is understood that construction of all the Works will have been completed by 30th June 1970.

3. REMUNERATION OF CONSULTING ENGINEERS:

The remuneration of the Consulting Engineers for the performance of the necessary services under Clauses 2 IA and 2 II A of this agreement shall be a fee, payable monthly calculated on the basis and in the manner set out in Part II of the Schedule hereto, that is, on a time basis, provided that the total fees for such services shall not exceed an amount equal to 20 per cent of a fee calculated on the basis and in the manner set out in Part I of the Schedule hereto.

The remuneration of the Consulting Engineers for the performance of the necessary services under Clauses 2 I B and 2 I C of this agreement shall be 80 per cent of a fee calculated on the basis and in the manner set out in Part I of the Schedule hereto, with provisions as follows:

A. Subject to other arrangements for interim payments on a monthly

basis, payments on account shall become due as follows:

(i) 30 percent of the said fee, together with the whole of the appropriate additional percentage fee provided for in the said Schedule for the design of reinforced concrete and structural steel work, when such duties as may be applicable under Clause 2 IB(i)(a) have been completed.

(ii) A further 20 per cent of the said fee when such duties as may be applicable under Clause 2 IB(i) (b) and (ii) have been completed.

(iii) The remaining 30 per cent of the said fee by monthly instalments as the work proceeds, in proportion to the cost of the work carried out.

B. Payments under this Clause shall be calculated on the cost of the Works(or any portion thereof) as shown in an accepted tender or tenders or, where such cost is not accurately known, on the Consulting Engineers' best estimate of the cost of the Works (or of the relevant portion thereof) at the time payments become due. Such payments shall not be regarded as valuations of the duties performed at the respective stages but shall bank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the Works, as defined in Clause 8 of this Agreement.

C. Where the Works are the subject of more than one Contract, the instalments of the fee, as set out above, shall become due separately in respect of each individual contract.

D. Where the times of reaching the above stages are long delayed through circumstances over which the Consulting Engineers have no control, the Consulting Engineers shall be entitled to interim payments as determined by the amount of work performed by them.

The remuneration of the Consulting Engineers for the performance of the necessary services under Clauses 2 II B and 2 II C of this agreement shall be a fee, payable monthly calculated on the basis and in the manner set out in part II of the Schedule hereto:

4. Remuneration for additional services:

The Consulting Engineers shall be paid for additional services required by the Client in accordance with the Scale of charges shown in part II of the Schedule hereto, or as may be otherwise agreed, together with specialists' fees and out-of-pocket expenses in connection therewith. Such additional services shall include, inter alia, work and advice in connection with:

(i) Preparing any report or additional Contract Documents required for the consideration of alternative general proposals.

(ii) Parliamentary Powers, Ministerial Orders and sanctions, licences and permits.

(iii) Obtaining formal consents from outside authorities, or persons having rights or powers in connection with the Works or the site thereof.

(iv) The valuation, purchase, sale or leasing of lands, or obtaining wayleaves.

(v) All surveys other than that referred to in Clause (2)IA(i), and carrying out model tests or special investigations.

(vi) Preparing shop details for fabrication of Steel work, or other metal frame works.

(vii) Inspections or tests other than those normally carried out on site or by resident site staff appointed under Clause 9.

(viii) Excessive delay on the part of the Client or of any Contractor or the taking by the Client of the Works or any part thereof out of the hands of any Contractor due to his failure properly to perform the relevant Contract.

(ix) Litigation or Arbitration.

(x) Special additional services, not included in this Agreement, which may be carried out by the Consulting Engineers by mutual agreement of both parties. This includes provision of assistance to the Client with respect to training of the Client's personnel on operation and maintenance of both existing waterworks and sewerage facilities and the new facilities which are the subject of this agreement. ~~In this respect, the Consulting Engineers will utilise their good offices with the World Health Organisation(WHO) to assist the Client in obtaining assistance from the WHO for purposes of training.~~

Delete

(xi) Any Government of India taxes or charges as described in Clause 17(d) from which the Consulting Engineers may not be exempted.

5. Alterations or Modifications to Designs:

If, after completion of the duties under Clause 2I A, any design whether completed or in progress of any specification, drawing or other document prepared in whole or part by the Consulting Engineers shall require to be modified or revised by reason of instructions received by the Consulting Engineers or by reason of circumstances which could not reasonably have been, foreseen, such modification or revision and any consequential reproduction of documents shall be the subject of additional payment computed on a time basis in accordance with the Scale shown in part II of the Schedule hereto, or such other basis as may be agreed, together with any appropriate reimbursements under Clause 6.

6. Out-of-Pocket Expenses:

A. In addition to the remuneration to be paid under other Clauses of this agreement, the Consulting Engineer shall be re-imbursed by the Client for all out-of-pocket expenses actually and properly incurred by them in respect of:

(i) Printing,reproduction and purchase of all documents, drawings, Maps and records.

(ii) Telegrams and Long distance Telephone calls

(iii) Advertising for tenders and for resident site staff

(iv) Other special expenses as mentioned in Clause 17.

B. If the services of an Architect are required by the Client to deal with the archictural treatment of the Buildings, his fee shall be paid by the Client. If architectural services are provided by the Consulting Engineers, an additional fee shall be chargeable.

7. Payment of Accounts:

To cover the initial expenses of the Consulting Engineers, the Client shall, on the signing of this agreement by both parties, make an advance to the Consulting Engineers in the amount of $ 30,000/-. This amount shall be deducted from the Consulting Engineers' subsequent invoices at the rate of $ 10,000 per month.

Payments to the Consulting Engineers shall be made monthly for services rendered under Clause 3,4,5 and 6 for the services rendered during the month, in accordance with monthly invoices to be submitted by the Consulting Engineers.

With respect to Clause, 3, the Consulting Engineers, in preparing their invoices shall estimate the payments due based on the estimated percentage of completion of the work. With respect to Clauses 4,5 and 6, the monthly invoices will provide for reimbursement as and when the additional services are provided or the expenses incurred, as the case may be.

It is anticipated that the Client may furnish to the Consulting Engineers, by mutual agreement of both parties, Office space, Local transportation, housing accommodations, and other services or facilities. In this event the value of these services and facilities as mutually agreed upon, will each month be credited by the Consulting Engineers to the Client, and this amount deducted from the monthly invoice.

The payments to the Consulting Engineers shall be made from a confirmed letter of credit to be established by the Client in the Swiss-Israel Bank in Geneva(Switzerland) or any Swiss bank which is a correspondent of the Client. For this purpose, the Client agrees to establish a letter of credit in favour of the ConsultingEngineers in the amount of 200,000/- U.S.Dollars in one of the above-mentioned banks within

within a maximum of one Hundred(100) days after the date of the signing of the Contract. Vouchers prepared each month by the Consulting Engineers and bearing the approval of the Client shall be the basis of the payments made by the Client to the Consulting Engineers. The Consulting Engineers shall receive their remuneration by presenting these approved vouchers to the above-mentioned bank. In case, when vouchers submitted by the Consulting Engineers contain expenses which appear questionable to the Client, such expenses shall initially be deducted and the balance shall be promptly paid to the Consulting Engineers, and in the event these expenses can be justified in accordance with the terms of this Agreement such expenses will be included in the next month's voucher. The amount of the letter of credit which is reduced after each payments shall be increased to 200,000 U.S.Dollars by additions made by the Client; however, towards the end of the Contract no replenishment will be made if both parties agree that the amount of the letter of credit will be sufficient to cover the remaining services in the Contract. In the event of any disputes on payments from the letter of credit the decision of the Arbitrator(Clause 16) will be considered as binding on both parties and sufficient basis for the above-mentioned bank either to make or withhold payments.

8. Cost of the Works:

The cost of the Works or any part thereof shall be deemed to include:

(i) The cost to the Client of the Works, from whatever cause arising-including any payments made to the Contractors by way of bonus, incentive or ex-gratia payments, or settlement of claims, and before deduction of liquidated damages or penalties(if any) payable by the Contractors to the Client. Such cost shall exclude:

a) Administration expenses incurred by the Client.

b) Professional fees and out-of-pocket-expenses.

c) Salaries, travelling, out-of-pocket and office expenses of resident site staff appointed under Clause 9, unless the works are carried out by direct labour.

d) Interest on capital during construction, and the cost of raising moneys required for carrying out the construction of the works.

e) Cost of land and wayleaves.

(ii) A fair valuation of any labour, materials, manufactured goods, machinery or other facilities provided by the Client, and of the use and waste(including all cost of repairs) of construction

plant and equipment belonging to the Client which he shall require to be used in the carrying out of the Works.

(iii) Salaries, travelling, out-of-pocket and office expenses of resident site staff appointed under Clause 9, where the Works are carried out by direct labour.

(iv) The market value, as though they were purchased new, of any second-hand materials, manufactured goods and machinery incorporated in the Works.

v) ~~The market value, as though they were purchased new, of an~~ The cost of normal soil investigations.

9. Supervisions on Site:

The Consulting Engineers shall, subject to the approval of the Client which shall not be unreasonably withheld, appoint such resident site staff as the Consulting Engineers consider necessary for the efficient supervision of the work on site. The full cost of such staff including such expenses as are attributable to their employment and to their duties, shall be borne by the Client, and shall be refunded monthly to the Consulting Engineers. Alternatively, if mutally agreed, the Consulting Engineers may nominate such staff for appointing and direct payment by the Client. In either case, such staff shall take instructions from the Consulting Engineers only. The Client shall at his own cost arrange for such local office accommodation, furniture, telephones, equipment and transport as shall be reasonably necessary for the use of the resident staff. In the event of such resident staff not being appointed or not being available(due to sickness or other cause), the Consulting Engineers shall be entitled to charge for any supervision additional to the site visits of inspection under Clause 2 IC(vii) in accordance with the Scale shown in Part II of the Schedule hereto.

10. Damage or Destruction of the Works:

If at any time before the completion of the Works any part of the Works or the equipment therefor shall be damaged or destroyed, the Client shall pay to the Consulting Engineers the appropriate remuneration for any additional work or expense resulting from such damage or destruction.

11.

11. Postponement or Abandonment of the Works:

In the event of the whole or any part of the Works being postponed or abandoned, then the payment to be made to the Consulting Engineers for Services performed in respect of that part of the Works so postponed or abandoned shall be calculated in accordance with Clause 3 A of this Agreement increased by one quarter, and in accordance with such other Clauses as may be applicable, having regard to the services performed prior to the Works being postponed or abandoned. If, within two years, the postponed Works or any part thereof shall again proceed, then any relevant payments made under this Clause shall rank as payments on account towards the total fee actually payable and calculated on the cost of the works as defined in Clause 8. Should additional services by the Consulting Engineers be required in connection with the resumption of postponed Works, the Consulting Engineers shall be entitled to charge for such additional services on a time basis calculated in accordance with the scale shown in part II of the Schedule hereto.

In the event of the Works or any part thereof being postponed for a period longer than two years, such works or part thereof shall be considered to have been abandoned.

12. Care and Diligence:

The Consulting Engineers shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by them and, in so far as any of their duties are discretionary, shall act fairly as between the Client and the Contractor. Except in an emergency, the Consulting Engineers shall not, without the propr approval of the Client, authorise any modification of the Works involving a substantial extra cost.

13. Information to be supplied to Consulting Engineers:

The Client shall supply free of charge all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consulting Engineers of their duties under this Agreement.

14. Ownership of Documents and Copyright:

All documents prepared by the Consulting Engineers in connection with the Works are the property and copyright of the Consulting Engineers, and the Client shall not be entitled, either directly or indirectly, to make use of such documents for the carrying out of any work beyond the works to which this agreement relates, without the prior approval of the Consulting Engineers.

15. Non-Assignment:

The Consulting Engineers shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof, and the same shall automatically come to an end on the death of the survivor of them but without prejudice to the accrued rights of either party against the other under this Agreement-provided that it shall be lawful for the Consulting Engineers at any time to take into partnership another partner or partners and that he or they or the survivor of them shall thenceforth be deemed to be included in the expression 'The Consulting Engineers'.

16. Arbitration:

Any dispute or difference arising out of this Agreement shall be referred to the arbitration of a person to be mutually agreed upon or, failing agreement, of some person appointed by the President ~~the Direct~~ for the time being of the ~~Regional Office of the World Health Organisation at New Delhi.~~ International Chamber of Commerce.

17. SPECIAL CONDITIONS:

a) Travelling and Transport Expenses:

The Client shall reimburse the Consulting Engineers for the travelling and transport expenses of their principals and personnel engaged on the work, and their wives and dependents under the age of 18, from their home address to Bangalore and return. Travelling expenses of employees of the Consulting Engineers shall cover Tourist Class Air travel fares and first Class fares by rail. Such fares shall be payable for the families of the Consulting Engineers personnel only

in cases where the employee in question shall be employed on the work for a period of over one year.

Any member of the Consulting Engineers staff employed on the work for a period exceeding two years shall be entitled to home leave, for which the travelling expenses of himself and his family shall be borne by the Client; any member of their staff employed on the work for over a year and not having brought his family shall be entitled to home leave once every twelve months, for which the travelling expenses shall be borne by the Client.

(b) Currency in Which Payments are due:

All payments due to the Consulting Engineers shall be made in U.S. Dollars into Bank accounts designated by them either in India or abroad at their discretion. Furthermore, the Consulting Engineers shall be free to transfer abroad the balance of their accounts in India remaining unspent upon completion of the works.

The balance of any money in the possession of expatriate personnel of the Consulting Engineers shall be similarly convertible into U.S. Dollars for the transfer abroad upon completion of their tour of duty.

All out-of-pocket expenses incurred by the Consulting Engineers on behalf of the Client in Indian currency shall be re-imbursed to them in the same currency.

c). Visas and Other Facilities:

The Client shall make the necessary arrangements with the Union Government authorities to enable the Consulting Engineers to obtain multiple entry visas for members of their staff engaged on the work and other dependents, without delay, upon application both in Israel and in the United States.

The Client shall arrange the granting of the necessary work permits to all members of the Consulting Engineers' staff to be engaged upon the work, as well as permits for them and their families to take up residence in India for the duration of their tour of duty, in case such permits should be required.

d) Exemption from Taxation:

The Consulting Engineers and their employees shall be exempted from the payment of any income Tax, Company tax or any other taxes or charges imposed by the Government, at present in force in India or which may come into force during the course of the work.

The Consulting Engineers shall be free to import and re-export, free of tax, any equipment required for the carrying out of the work.

The Consulting Engineers' personnel shall be entitled to import into India, for their proper use, One Car and the necessary furniture, household goods and personal belongings free of customs duties, taxes or fees, and to re-export these at the end of their tour or duty.

e) Services and Facilities Furnished by Client:

By mutual agreement by both parties, the Client will make available to the Consulting Engineers such facilities and services as offices, transportation, housing accommodations etc., for use by the Consulting Engineers in performing the duties described in Clauses 2 IB and 2 IC for which the Consulting Engineers shall reimburse the Client for the value of these facilities and services as mutually agreed upon. With respect to the duties to be performed by the Consulting Engineers described in Clauses 2 IA and 2 II, the Client shall make available to the personnel of the Consulting Engineers at Bangalore without charge all necessary office facilities, transportation, and other facilities necessary for the conduct of the work of these personnel.

f) In the event, for any reason other than noted above, at any time during the progress of the work to be done by the Consulting Engineers under this Agreement under Clauses 2 IB and 2 IC, the Client wishes to discontinue this work, the Client shall so advise the Consulting Engineers in writing. In this event, the Consulting Engineers shall be paid a total amount for their work done under Clauses 2 IB and 2 IC according to part II of the Schedule hereto, provided that in addition the Consulting Engineers shall be reimbursed for any expenses incurred in India which are non-recoverable due to discontinuation of the work.

Addition to Clause 17(add as new item at end):

g) With respect to personnel of the Consulting Engineers assigned to work in India for work under Clauses 2 IC, 2 II B, and 2 II C, these personnel will be selected by the Consulting Engineers taking into account the needs and wishes of the Client, after consultation with the Client.

h) The work to be done by the Consulting Engineers under this agreement shall be limited to those items delineated in Clause 2 and shall not include such items as colonies for housing, roads and communications and miscellaneous items, except as may be otherwise mutually agreed upon, following the provisions of clause 4(x).

S C H E D U L E
PART I
SCALE OF FEES

1. The fee shall be on the basis of a lump sum, plus a percentage of the cost of the works as defined in Clause 8, namely the lump sum amount of $ 35,700 plus 4 per cent of the cost of the works.

2. Additional Fees on Reinforced concrete portion of the Works-including the Concrete, Reinforcement, Prestressing Tendons and Anchorages, Formwork, Inserts and all Labours, together with the relevant proportion of "Preliminaries"(not applicable to factory-manufactured reinforced concrete pipelines) but applicable to all pipe specials or structures involved in such pipelines): $ 9,800 plus 1½ percent of the cost of the reinforced concrete portion of the work.

3. Additional Fees for Structural Steel work:

(Not applicable to all pipes, specials or structures involved in such pipeline works):

For Structural steel works, the additional fee shall be one half of that for reinforced concrete.

S C H E D U L E
Part II.

SCALE OF CHARGES ON TIME BASIS:

The Scale of charges on a time basis shall be as follows:

(i) Principals/Senior Officers of the Consulting Engineers: $ 150 per diem

(ii) Technical Staff:
At the rate of $ 1.50 per hour per $ 1000(or part thereof of annual salary(including any bonus). For the purpose of this calculation, the salary shall be:

a) For work done in the Consulting Engineers office - The Employee's home office salary.

b) For staff on long term assignment in India - The employee's Overseas Salary.

C) For staff on short term assignments in India- The employee's home office salary plus displacement allowance.

In cases (b) and (c) the payment due shall be converted into a monthly fee based on a number of hours per working month equivalent to one eleventh of the offical annual working hours in India.

Time spent by Clerical staff shall not be chargeable.

Time spent by Principals/Senior Officers and Technical Staff in travelling shall be chargeable.

Vasan:

No. **196**

DEPARTMENT OF

Office.....

Station.....

No.
Dated

		Date	*Initial*
To whom sent	Given for copying		
	Copied		
	Examined		
	Signed		
When returned	Given for despatch		
	Despatched		
	Entered in Current Register		
	Entered in Periodical Register		
	Indexed		
Papers in the file	To be destroyed on		

Record-keeper.

Case-worker or Clerk.
Accountant.

Manager.
Superintendent.

(SUBJECT)

Not to be filled in the case of permanent records.

No. BWSS/CON/64-65

Office of the Chief Engineer
(General) of Mysore, Bangalore-1

Dated 16-11-1964

To

The Secretary to Government of Mysore,
Public Works & Electricity Department,
Bangalore.

Sir,

Subject:- Long Range Water Supply Scheme for Bangalore -- Appointment of Consultants for -

---

Reference:- 1) This office No.BWSS/CON/64-65 dated 19-10-1964 forwarding a copy of Draft Agreement with M/s.Tahal ltd., Israel.

2) Government letter No.PWD 32 LWS dated 13-11-1964 forwarding a copy of resolution of Bangalore Water Supply and Sewerage Board dated 22-10-1964.

The Technical Sub Committee of the Bangalore Water Supply and Sanitation Control Board met on 13th and 14th instants and resolved as per Proceedings enclosed. Accordingly they have recommended to terminate negotiations with Messrs. Tahal ltd., Israel and initiate negotiations forthwith with M/s.Binnie & Partners, London. I am enclosing herewith a copy of the Proceedings for further action.

Yours faithfully,

(S.G.BALEKUNDRY)
CHIEF ENGINEER(GENERAL)

PROCEEDINGS of the VIIth Meeting of the TECHNICAL SUB COMMITTEE of the 'BANGALORE WATER SUPPLY AND SANITATION CONTROL BOARD' held at 6.00 P.M. in the Chambers of the Chief Engineer(General), Bangalore on 13-11-1964:

PRESENT:

Sriyuths:

1. S.G.Balekundry,
   Chief Engineer(General)
   Bangalore.

2. N.V.Modak,
   Consulting Engineer,
   Bombay.

3. K.Narayanaswamy, I.A.S.,
   Chairman, Bangalore Water
   Supply & Sewerage,Board,
   Bangalore.

4. M.Narasimhaiah,
   Retired Chief Engineer.

5. Chandappa Patel, I.A.S.,
   Secretary to Government of Mysore,
   Public Works & Elec.Department
   Bangalore.

6. S.Rajagopalan,
   Deputy Director of Public Health
   Engineering, Government of India,
   NEW DELHI.

7. M.K.Venkataraman,
   Under Secretary,
   Department of Economic Affairs,
   Ministry of Finance,
   Government of India,New Delhi.

Attended by Special Invitation.

"The Technical Sub Committee of the Bangalore Water Supply & Sanitation Control Board took note of the details of discussions held by the Chief Engineer (General) with M/s.Tahal(Water Planning ltd., Consulting Engineers, Israel, at Bangalore during the negotiations conducted with the firm between 13th and 17th October 1964 regarding the selection of a firm of Consultants for the Bangalore Water Supply and Sewerage project. The Committee also considered the resolution of the Bangalore Water Supply and Sewerage Board dated 21-10-1964 in this behalf, and the subsequent discussions which the Chairman of the Board and other officials of the Mysore Government had at New Delhi with the Officers of the Government of India on 28-10-1964.

On a due examination of all aspects, the Sub Committee considered that the terms and conditions of the firm as contained in the Draft Agreement as their irreducible minimum for the Consultency services, were unduly high for the work involved, and unacceptable in several other respects.

The Sub Committee accordingly recommends that the firm may be intimated forthwith that the negotiations with them for this work stand terminated, as their terms and conditions are not acceptable."

The Sub Committee also recommends that M/s.Binnie & Partners who had also been recommended earlier by the Chief Engineer(General), may now be invited for negotiations.".

No.PWD 141 CTW 62

To

M/s Binny & Partners, Artillery Mansions, Artillery Road
~~London~~. West-Minster, London. S.W.1.
United Kingdom.

Gentlemen,

Sub:- Integrated Water Supply and Sanitation Scheme to Bangalore City-Appointment of Consultants.

Page 226; (ctp)

Ref:- ~~Your Telegram dated 8.11.1961.~~ Ref:- This Stat. Govt. letter no. PWD 141 CTW 62 dt 20.5.64

~~W/r to your telegram cited above,~~ I am directed to inform you that our Government will be pleased to consider the appointment of your firm as Consultants for the above mentioned scheme. It is understood tha t representatives of your firm have already paid a visit to Bangalore and had a first hand knowledge of the project as already drawn up by our Engineers. ~~I am enclosing herewith a copy of the project report for your reference~~.

In this connection, I am to add here that you were apprised of the fact that our Engineers have already made detailed plans and designs for the work and we expect you to review the same with a view to improve the project by introducing necessary modifications wherever considered necessary. Even in so doing, it is felt, our Engineers would work out details of such modifications.

Regarding tenders and specifications your suggestions and guidance would be essential.

Similarly, regarding the supervision of the work during the course of execution and management of the completed system, we have got adequate personnel. It is expected of the Consultants to provide an overall guidance to our supervisory staff.

I am therefore to request that your Representatives be directed to go over to Bangalore for negotiations in this regard. The date of arrival of your representatives

307

may please be intimated in advance to the undersigned and to the Chief Engineer (General), New Public Offices, P.B.No.40, Bangalore 1, simultaneously.

Y/f

By.Secy.PWD(I).

Copy to the C.E.(General), Bangalore for informa

Dy.Secy.PWD(I).

TR.

Draft.

No. PWD 141 GTW 62.

To

M/s Tahal (Water Planning) Ltd.,
54, IBN Gwirol Street,
P.O.B. 11170,
Tel-Aviv, Isreal.

Sir,

Subject: Integrated water Supply and Sanitation Scheme to Bangalore - City - appointment of Consultants.

Reference: Your Telegram dated 30.9.64 in the matter.

With reference to the above, I am directed to state that the terms and conditions offered by your Firm for the consultancy services are not acceptable to this Government. In the circumstances, I regret to inform you that negotiations for the work may please be treated as terminated.

Y/f.,

D.S., to Govt., PWD.,

Copy to the : Special Duty Officer,
Bangalore Water Supply & Sewerage Board;
The C.E., (G1).,Bangalore.

Gva.17.11.64.

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

FROM

Dated, Bangalore, 18-11-1964.

Secretary to the Government of Mysore,

To Public Works & Elecy.Department, Bangalore.

M/s. Binny & Partners,
Artillery Mansions,
Artillery Road,
West Minister,
London, S.W.I.,
United Kingdom.

Gentlemen,

Sub:-Integrated Water Supply and Sanitation Scheme to Bangalore City-Appointment of Consultants.

Ref:-This State Govt. letter No. PWD 141 GTW 62 Dated 20-5-1964.

I am directed to inform you that our Government will be pleased to consider the appointment of your firm as Consultants for the above mentioned scheme. It is understood that representatives of your firm have already paid a visit to Bangalore and had a first hand knowledge of the project as already drawn up by our Engineers.

In this connection, I am to add here that you were apprised of the fact that our Engineers have already made detailed plans and designs for the work and we expect you to review the same with a view to improve the project by introducing necessary modification wherever considered necessary. Even in so doing, it is felt, our Engineers would work out details of such modifications.

Regarding tenders and specifications your suggestions and guidance would be essential.

Similarly, regarding the supervision of the work during the course of execution and management of the completed system, we have got adequate personnel. It is expected of the Consultants to provide an overall guidance to our supervisory staff.

I am therefore to request that your Representatives be directed to go over to Bangalore for negotiations in this regard.

P.T.O.

The date of arrival of your representatives may please be intimated in advance to the undersigned and to the Chief Engineer (General), New Public Offices, P.B. No.40, Bangalore-1, simultaneously.

Yours faithfully,

(Sd)

(M.CHANNAPPA),
Deputy Secretary to Government,
Public Works Department(Irrigation)

Copy to the Chief Engineer (General), Bangalore for information.

M Channappa 18/11/64

Deputy Secretary to Government,
Public Works Department(Irrigation).

ISSUED
Dated 19/11/64

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

FROM

Dated, Bangalore, 18-11-1964.
19

Secretary to the Government of Mysore,
Public Works & Elecy.Department, Bangalore.

To

M/s Tahal (Water Planning) Ltd.,
54, IBN Gvirol Street,
P.O.B. 11170,
Tel-Aviv, ISRAEL.

Sir,

Sub:-Integrated Water Supply and Sanitation Scheme to Bangalore -City, Appointment of Consultants.

Ref:-Your Telegram Dated 30-9-1964 in the matter.

With reference to the above, I am directed to state that the terms and conditions offered by your Firm for the consultancy services are not acceptable to this Government. In the circumsta I regret to inform you that negotiations for the work may please treated as terminated.

Yours faithfully,

Sd - - -
(M.Channappa),
Deputy Secretary to Government
Public Works Department(Irrig

Copy to:-

The Special Duty Officer, Bangalore Water Supply and Sewerage Board, Bangalore.

The Chief Engineer (General), Bangalore.

for information.

ISSUED
Dated 19/11/64

M Channappa 18/11/64

(M.Channappa)
Deputy Secretary to Government,
Public Works Department (Irrigation).

OFFICE OF THE CHIEF MINISTER OF MYSORE.

REMINDER

C.M.O.NO.2048/64 Dt. 27.7.64

To
The Secretary to the Govt. of Mysore,
P. W. Department.

Sir,

Ref:- CM 2048 D. 3.7.64

Sub:- Binnis Partners London D 21-6-64 13 acre alone wall in supply scheme

1) The present stage on the reference mentioned above may kindly be intimated in the counter-part immediately.

Yours faithfully,

Private Secretary to the Chief Minister.

(To be returned)

Reply.

No. Dated

To
The Private Secy. to the Chief Minister, Bangalore.

Sir,

2) With reference to the marginally noted letter, I am directed to state that a final report from the Chief Engineer (R) Bangalore has been received & the same has been submitted on 29.7.64 to the Joint Secretary for orders & seeking approval of Govt.

Yours faithfully,

Secretary to Govt., Deptt.

MYSORE GOVT. SECRETARIAT 1032 28 JUL 1964 P.W. DEPT.

OFFICE OF THE CHIEF MINISTER 30 JUL 1964

(x) yours interim reply PWD 141 TW 62 D 15.7.64.

OFFICE OF THE CHIEF MINISTER No. 31 JUL 1964 BANGALORE.

3) This may now be placed on the table of C.M. with the above information

1) For intimating the present Ref. para 2 above

MYSORE GOVT. SECRETARIAT No. 1380 15 SEP 1964 P.W.D. (RECEIVE & ISSUE SECTION)

OFFICE OF THE MINISTER
NO.
23 SEP 1964
BANGALORE

1380/8/64

8) The Govt has appointed M/s Tahal (Water planning) Ltd. Israel as a consultants for the integrated water supply & sanitation schemes to Bangalore city. No further action is called for in this regard now.

(vide letter No PWD 141 GTH 62 dt 27-8-64)

Please
17/9

7) C.W.
P. put up with the main file.
(Main file disposed of separately C.W.)
17/9

9) As per the proceedings of the fifth meeting of the Water Supply and Sewerage Control Board held on 14.8.64, Govt have decided to invite M/s Tahal (Israel) for negotiations for appointment as Consultants for Bangalore Integrated Water Supply Scheme, in view of their experience in the design of both steel mains and prestressed concrete cylinder pipe mains for very high capacity pumping etc. Accordingly M/s Tahal (Israel) have been addressed in the matter. Their reply is awaited. With the above information, this may be marked to P.S. to Chief Minister with the papers and

24/9/64

M.W. WINSTON
U.S. PWD.
22/9/64

P.S./C.M.

Cm 4/0 2048/64

9) For kindly intimating the present position. Ref. para 8 above. vide portion marked 'A'

23/x
for perusal.

W/S
PWD

MYSORE GOVT. SECRETARIAT
No. 1686
26 OCT 1964
P.W.D. (RECEIPT & ISSUE SECTION)

26/10.

The State Govt. have invited M/S Sabel Planners Ltd. - Israel for appointment as consultants for execution of Pilot Infiltration-cum-Irrigation Scheme.

A draft agreement with the above firm in consultation with the World Bank has been drawn and the same has been referred to the Law Dept. under file no PWD 16 STW 63 for scrutiny before sending to S.O.I. for their approval.

With the above information, this may be marked to P.S. to Chief minister

D. S. may also talk to

28/x

28/x/64

L.S. (J)

28/10

M. CHANNAPPA
Dy. Secy. to Govt. P.W.D.

OFFICE OF THE CHIEF MINISTER
No. 2/11
30 OCT 1964
BANGALORE

(D.P.C)

P.S. to Chief minister

Seen. Thanks.
S. Veeraiah
PS to CM

case was to be closed
5/11
OA)

9/11/64 DS (PWD - I)

PWD 141 PTW.62 - Repn.

OFFICE OF THE CHIEF MINISTER OF MYSORE.

REMINDER

C.M. No. 2048 Dt. 20-7-64

To

The Secretary to the Govt. of Mysore,
PWD Department.

Sir,

Ref:- Code 2048 Dt. 3-7-64

Sub:- Binnie's partners London Re. Bihe Irrigation scheme.

The present stage on the reference mentioned above may kindly be intimated in the counterpart immediately.

Yours faithfully,

Private Secretary to the Chief Minister.

(To be returned)

Reply.

No. Dated

To

The Private Secy. to the Chief Minister, Bangalore.

Sir,

I am directed to state that the letters received from various firms & Binnie & partners have been sent to C.E.(I) for remarks & his reply is awaited. The reminder has already been issued on 10-7-64.

Yours faithfully,

Under Secretary to Govt., Deptt.

MYSORE GOVT. SECT. No. 950 14 JUL 1964 P.W.D. (RECEIPT)

OFFICE OF THE CHIEF MINISTER. NO. 16 JUL 1964 BANGALORE.

Sri. MMH.

GOVERNMENT OF MYSORE

324

No. PLM 104 MNY 64.

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

FROM

Dated, Bangalore, 31.10.1964.
SS.1886.

The Secretary to the Government of Mysore,
PH.Labour and Munl.Admn.Department,Bangalore.

To

The Director,
Department of Economic Affairs,
Ministry of Finance,
Government of India,
New Delhi.

Sir,

MYSORE GOVT. SECRET No 1725. 2 NOV 1964 P. MO. (RECEIVED)

Subject: Bangalore Water Supply & Sewerage Board - Appointment of consultants.

In referring to your telegram No.12(60)/63-FB. dated the 13th October 1964 on the subject cited above, I am directed to invite your attention to the State Government letter of even number dated 17.9.1964(a copy enclosed for ready reference) and to state that the question of appointing consultants to the Board, is still under consideration of Government. No decision has yet been taken in the matter. Meanwhile the instructions contained in your telegram have been communicated to all the concerned.

Yours faithfully,

Sd/-
(A.V.Mirza)
Under Secretary to Government,
PH.Labour & Munl.Admn.Dept.

Memo
Copy with a copy of telegram to the Chief Secretary to Government.
Copy to the Chdrman, Bangalore Water Supply & Sewerage Board, Bangalore.
Copy to the Secretary to Govt. P.W.D., for information.

Under Secretary to Government,
PH.Labour & Munl.Admn.Dept.

ss.5/2110/-

P.T.O

The main file No PWD 141 GTW 62
has been submitted to the O.S.D. [illegible]
on 6.11.64. This will be placed in
the main file

7/11

7/11

9/11/64

(4)

GOVERNMENT OF MYSORE

324

No. PAM 104 MIX 64.

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

FROM

Dated, Bangalore, 31.10.1964.
SE.1886.

The *Secretary to the Government of Mysore,*
PH.Labour and Munl.Admn.Department,Bangalore.

To

The Director,
Department of Economic Affairs,
Ministry of Finance,
Government of India,
New Delhi.

Sir,

URGENT GOVT. SECRET
No 1725.
2 NOV 1964
P. M. O. RECEIVED

Subject: Bangalore Water Supply & Sewerage Board - Appointment of consultants.

In referring to your telegram No.12(60)/63-FB. dated the 13th October 1964 on the subject cited above, I am directed to invite your attention to the State Government letter of even number dated 17.9.1964(a copy enclosed for ready reference) and to state that the question of appointing consultants to the Board, is still under consideration of Government. No decision has yet been taken in the matter. Meanwhile the instructions contained in your telegram have been communicated to all the concerned.

Yours faithfully,

Sd/-
(A.V.Mirza)
Under Secretary to Government,
PH.Labour & Munl.Admn.Dept.

Memo

Copy with a copy of telegram to the Chief Secretary to Government.
Copy to the Chairman, Bangalore Water Supply & Sewerage Board, Bangalore.
Copy to the Secretary to Govt. P.W.D., for information.

Under Secretary to Government,
PH.Labour & Munl.Admn.Dept.

ss.5/2110/-

P.T.O

GOVERNMENT OF MYSORE

No. GAD(ADMN.D)1602/64.

[Enclosed 3 Receipts]

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

MYSORE GOVT. SECRETARIAT No 1342 10 SEP 1964 RECEIPT & ISSUE SECTION

Dated, Bangalore, 8th Sept. 1964.

FROM
The Chief Secretary to the Government of Mysore,
Bangalore.

To

The Superintendent of Post office, Bangalore.

Through:
The Sub-Post Master,
Vidhana Soudha, Bangalore.

Sir,

Subject:- Refund of Rs.124.70 Ps. for non delivery of a registered Air Parcel addressed to M/s Tahal Water Planning Ltd., Israel.

A registered Air Parcel addressed to M/s Tahal Water Planning Ltd., No.54.1, BNCVI ROL Street, P.O.B.11170, TELAVIV, ISRAEL was booked at the Vidhana Soudha Post Office on 28-8-1964 vide Receipt No.085 after paying the parcel charges of Rs.124.70 Ps. but the same was returned undelivered to the addressee, on 3-9-1964.

On an enquiry made it is learnt that due to non delivery of the aforesaid parcel the aforesaid parcel charges of Rs.124.70 Ps. is refundable by your Department. I am therefore to request you kindly to arrange to refund the said sum of Rs.124.70 Ps. to Government. The relevent receipt No.085 is enclosed herewith for your reference.

Early action is requested in this behalf.

Yours faithfully,

(N.P.Joshi)
Under Secretary to Govt.,
G.A.D.(Executive)

Copy to:
The General Despatching Section, M.G.S., Vidhana Soudha, for information.
The P.W.D. Secretariat, for information.

G.H.Rao.

227

INVEST WISELY

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

MYSORE GOVT. SECRETARIAT
No. 1861
25 NOV 1964
P.W.D. RECEIPT

Prefix | Code | No. | C.

Recd. from | Sent at | To | By | Office Stamp.

Handed in at (Office of Origin) | Date | Hour | Minute | Service Instructions | Words

TO

LT 716 MDR 248 -LONDONLH 24 OCS 32

LT DEPUTY SECRETARY TO GOVERNMENT PUBLIC WORKS DEPARTMENT IRRIGATION MYSORE GOVERNMENT SECRETARIAT VIDHANA SOUDHA BANGALORE =

REFERENCE YOUR LETTER PWD 141 GTW 62 OUR PARTNER NORRIS ARRIVING BANGALORE TUESDAY FIRST DECEMBER = ARBINTRO LONDONSW1

MGIP Sant.—50 Telegraph (DGPT-63)—SFS/S-1/31/13—(C-Book)—6-3-64—5,00,000 Bks.

SUBJECT ..... Bangalore Water Supply Scheme — Appointment of Consultants — Telegram from M/s. Binnie and Partners London —

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the *196* . .

Date of issue.....

Signed by T.S By separate letter P.

List of enclosures.....

Copied by.....

Examined by.....

Section

File No.

Serial No.

No.

To

The Chief Engineer (PI), Mysore

The Officer on Special Duty - Bangalore Water Supply Scheme (Chairman, Bangalore Water Supply and Sewerage Board) Bangalore

Sir,

I am directed to forward herewith for your information and necessary action a copy of telegram dated 2.4.1964 received from M/S Binnie & Partners, London on the above subject.

T.S

Dy. S. (1)

Copy with a copy of telegram is forwarded to P.W.D. for information.

P 328 ?

WD 012116—GPB—4,00,000—7-3-63

GOVERNMENT OF MYSORE

331

No. MD 141 GTW 63 ~~PWD 32 BRA 63.~~

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

FROM

Dated, Bangalore, ..Novr...1964.

The *Secretary to the Government of Mysore,*
Public Works Department.

To

The Chief Engineer(General)of Mysore,
Bangalore.
The Officer on Special Duty,Bangalore Water Supply Scheme,
(Chairman,Bangalore Water Supply and Sewerage Board),
Bangalore.

Sir,

Sub:- Bangalore Water Supply Scheme- Appointment of Consultants- Telegram from M/s. Binnie and Partners,London.

—

I am directed to forward herewith for your information and needful action a copy of telegram dated 24-11-1964 received from M/s.Binnie and Partners,London on the above subject.

Yours faithfully,

Sd/-

(M.Channappa)
Deputy Secretary to Government,
Public Works Department (Irrigation).

ncj/d.251164.

Memo of even no.dated 25 November,1964.

Copy with a copy of the telegram is forwarded to P.L.M. Department,for information.

25/11/64

Deputy Secretary to Government,
Public Works Department (Irrigation).

ISSUED
Dated...25/11/64

Copy of Telegram dated 24-11-1964 from M/s.Binnie and Partners, London, to the Deputy Secretary to Govt., P.W.D.(Irrn), Bangalore.

REFERENCE YOUR LETTER PWD 141 GTW 62 OUR PARTNER NORRIS ARRIVING BANGALORE TUESDDAY FIRST DECEMBER.

:COPY:

For Secretary to Government,
Public Works Department.

TELEGRAM EXPRESS STATE.

SHRI RAJAGOPALAN
DEPUTY DIRECTOR GENERAL
MINISTRY OF HEALTH
GOVERNMENT OF INDIA
NEW DELHI

PARTNER BINNY AND COMPANY LONDON ARRIVING BANGALORE ON FIRST DECEMBER FOR NEGOTIATIONS REGARDING BANGALORE WATER SUPPLY SCHEME STOP REQUEST TO ATTEND NEGOTIATIONS AT BANGALORE ON FIRST SECOND DECEMBER STOP GO OVER ON 30TH NOVEMBER TO FACILITATE PRIOR DISCUSSIONS STOP YOUR STAY MAY BE NECESSARY UPTO THIRD DECEMBER STOP

WORKSEC

- -

Not to be telegraphed:-

(Sd) - - - -
(M.CHANNAPPA)
Deputy Secretary to Government,
Public Works Department, Bangalore.

No.PWD/141 GTW 62.

ISSUED
Dated 26/11/64

Mysore Government Secretariat,
Public Works Department,
Vidhana Soudha,
Bangalore, Dated 26.11.1964.

Copy in confirmation is forwarded to Sri S,Rajagopalan, Deputy Director (General) Ministry of Health, Govt. of India, New Delhi for information.

Copy to the Officer on Special Duty, Bangalore Water Supply Scheme, Bangalore.

Copy to the Chief Engineer (General), Bangalore for information.

(M.CHANNAPPA)
Deputy Secretary to Government,
Public Works Department(Irrgn.).

krn; 261164.

336

TELEGRAM EXPRESS STATE.

SHRI RAJAGOPALAN
DEPUTY DIRECTOR GENERAL
MINISTRY OF HEALTH
GOVERNMENT OF INDIA
NEW DELHI

PARTNER BINNY AND COMPANY LONDON ARRIVING BANGALORE ON FIRST DECEMBER FOR ~~XXXXXXXXXX~~ NEGOTIATIONS REGARDING BANGALORE WATER SUPPLY SCHEME STOP REQUEST TO ATTEND NEGOTIATIONS AT BANGALORE ON FIRST SECOND DECEMBER STOP GO OVER ON 30TH NOVEMBER TO FACILITATE PRIOR DISCUSSIONS STOP YOUR STAY MAY BE NECESSARY UPTO THIRD DECEMBER STOP

WORKSEC

- -

Not to be telegraphed:-

M Channappa 26/11/61
(M.Channappa),
Deputy Secretary to Government,
Public Works Department, Bangalore.

Issued
26/11/61

Draft.

SECRETARY TO GOVT. OF INDIA
MINISTRY OF HEALTH
NEW DELHI

- -

PARTNER BINNY AND CO., LONDON ARRIVING BANGALORE ON FIRST DECEMBER. FOR NEGOTIATIONS REGARDING WATER SUPPLY SCHEME BANGALORE. PLEASE DEPUTE SRI RAJAGOPALAN DEPUTY DIRECTOR GENERAL TO ATTEND NEGOTIATIONS AT BANGALORE ON 1ST and 2ND DECEMBER. HIS ARRIVAL ON 30TH NOVEMBER FACILITATE PRIOR DISCUSSION.

WORKSEC

- -

(Not to be ~~xxxxxxxxx~~ telegraphed).

27/11/64

Deputy Secretary to Govt.,
P.W.D. (Irrigation).

Copy in confirmation is forwarded to the Secretary to the Govt., of India, Ministry of Health, New Delhi
Copy to ~~O.S.D.~~ Chairman, Bangalore Water Supply ~~Scheme~~ & Sewage Board;
Copy to C.E.(Gl).,Bangalore.

27/11/64.

D.S., to Govt., PWD (I).,

Mem issue

24/11

TELEGRAM EXPRESS STATE

SECRETARY TO GOVERNMENT OF INDIA
MINISTRY OF HEALTH
NEW DELHI

PARTNER BINNY AND COMPANY LONDON ARRIVING BANGALORE ON FIRST DECEMBER FOR NEGOTIATIONS REGARDING WATER SUPPLY TO MY BANGALORE PLEASE DEPUTE SRI RAJAGOPALAN DEPUTY DIRECTOR GENERAL TO ATTEND NEGOTIATIONS AT BANGALORE ON FIRST AND SECOND DEC HERE (STOP) HIS ARRIVAL ON 30TH NOVEMBER FACILITATE PRIOR DISCUSSION

WORKS

(Note to be telegraphed)

Sd/-
(M.Channappa)
Deputy Secretary to Government,
Public Works Department(Irrigation

kjp/27-11-64.

Copy in confirmation is forwarded to the Secretary to the Government of India, Ministry of Health, New Delhi.
Copy to Chairman, Bangalore Water Supply & Sewage Board.
Copy to Chief Engineer(General),Bangalore.

M Channappa 27/11/64
Deputy Secretary to Government,
Public Works Department(Irrga).

ISSUED
Dated...27/11/64

TELEGRAM EXPRESS STATE

SHRI M.K.VENKATARAMAN
UNDER SECRETARY
MINISTRY OF FINANCE
DEPARTMENT OF ECONOMIC AFFAIRS
NEW DELHI

PARTNER DIMMY AND COMPANY LONDON ARRIVING BANGALORE ON FIRST DECEMBER FOR NEGOTIATIONS REGARDING BANGALORE WATER SUPPLY SCHEME STOP REQUEST TO ATTEND NEGOTIATIONS AT BANGALORE ON FIRST SECOND DECEMBER STOP GO OVER ON THIRTIETH NOVEMBER TO FACILITATE PRIOR DISCUSSIONS STOP YOUR STAY MAY BE NECESSARY UPTO THIRD DECEMBER STOP

WORKSIC

NOT TO BE TELEGRAPHED

Sd/-

(M.CHANNAPPA)
DEPUTY SECRETARY TO GOVERNMENT
PUBLIC WORKS DEPARTMENT, BANGALORE.

NO:PWD 141 GTW 62.

Public Works Department
Mysore Government Secretariat,
Vidhana Soudha,
Bangalore Dated 27th November, 196

Copy in confirmation is forwarded to:

Shri M.K.Venkataraman, Under Secretary, Ministry of Home Affairs, New-Delhi, Department of Economic Affairs, New Delhi, for information;

The Chairman, Bangalore Water Supply and Sewage Board, Bangalore.

The Chief Engineer(General) of Mysore, Bangalore.

M. Channappa 27/11/64

Deputy Secretary to Government

ISSUED
Dated 27/11/64

RAO/7/27-11-1964.

TELEGRAM EXPRESS STATE

SECRETARY TO GOVERNMENT OF INDIA
MINISTRY OF HEALTH
NEW DELHI

PARTNER BINNY AND COMPANY LONDON ARRIVING BANGALORE ON FIRST DECEMBER FOR NEGOTIATIONS REGARDING WATER SUPPLY SCHEME BANGALORE PLEASE DEPUTE SRI RAJAGOPALAN DEPUTY DIRECTOR GENERAL TO ATTEND NEGOTIATIONS AT BANGALORE ON FIRST AND SECOND DECEMBER (STOP) HIS ARRIVAL ON 30TH NOVEMBER FACILITATE PRIOR DISCUSSION

WORKSEC

(Note to be telegraphed)

M Channappa 27/11/64

(M.Channappa)
Deputy Secretary to Government
Public Works Department(Irrig)

kjp/27-11-64.

Issued 27/11

TELEGRAM EXPRESS STATE

SHRI M.K.VENKATARAMAN
UNDER SECRETARY
MINISTRY OF FINANCE
DEPARTMENT OF ECONOMIC AFFAIRS
NEW DELHI

PARTNER BINNY AND COMPANY LONDON ARRIVING BANGALORE ON FIRST DECEMBER FOR NEGOTIATIONS REGARDING BANGALORE WATER SUPPLY SCHEME STOP REQUEST TO ATTEND NEGOTIATIONS AT BANGALORE ON FIRST SECOND DECEMBER STOP GO OVER ON THIRTIETH NOVEMBER TO FACILITATE PRIOR DISCUSSIONS STOP YOUR STAY MAY BE NECESSARY UPTO THIRD DECEMBER STOP

WORKSEC

NOT TO BE TELEGRAPHED:

M Channappa 27/11/64
(M.CHANNAPPA)
DEPUTY SECRETARY TO GOVERNMENT
PUBLIC WORKS DEPARTMENT, BANGALORE.

Issued 27/11

RAO/7/27-11-1964.

TELEGRAM EXPRESS STATE.

SHRI RAJAGOPALAN
DEPUTY DIRECTOR GENERAL
MINISTRY OF HEALTH
GOVERNMENT OF INDIA
NEW DELHI

PARTNER BINNY AND COMPANY LONDON ARRIVING BANGALORE ON FIRST DECEMBER FOR NEGOTIATIONS REGARDING BANGALORE WATER SUPPLY SCHEME STOP REQUEST TO ATTEND NEGOTIATIONS AT BANGALORE ON FIRST SECOND DECEMBER STOP GO OVER ON 30TH NOVEMBER TO FACILITATE PRIOR DISCUSSIONS STOP YOUR STAY MAY BE NECESSARY UPTO THIRD DECEMBER STOP

WORKSEC

- -

Not to be telegraphed:-

(M.CHANNAPPA)
Deputy Secretary to Government,
Public Works Department, Bangalore.

No.PWD/141 GTW 62.

Mysore Government Secretariat,
Public Works Department,
Vidhana Soudha,
Bangalore, Dated 26.11.1964.

Copy in confirmation is forwarded to Sri S,Rajagopalan, Deputy Director (General) Ministry of Health, Govt. of India, New Delhi for information.

Copy to the Officer on Special Duty, Bangalore Water Supply Scheme, Bangalore.

Copy to the Chief Engineer (General), Bangalore for information.

(M.CHANNAPPA)
Deputy Secretary to Government,
Public Works Department(Irrgn.).

krn; 261164.

341

Partners:-
C. BINNIE M.A., M.I.C.E., M.I.W.E., F.G.S., F.ASCE., M.E.I.C.
G. HETHERINGTON O.B.E., M.A., M.I.C.E., M.I.W.E.
GERRARD B.Sc.(Eng)., M.I.C.E., M.E.I.C.
P. J. NORRIS M.I.C.E., M.I.W.E., M.R.S.H., A.M.I.S.P.
R. V. C. PHILLIPS M.C., M.A., A.M.I.C.E., A.M.I.W.E.
S. E. H. FORD M.C., M.A., M.I.C.E., M.I.W.E.
J. G. ELDRIDGE B.Sc.(Eng)., A.M.I.C.E.
P. S. HARDY C.B.E., B.Sc.(Eng)., M.I.C.E.
MEMBERS OF THE ASSOCIATION OF CONSULTING ENGINEERS

Consultants:-
G. A. R. SHEPPARD M.A., M.I.C.E., M.I.W.E., M.Cons.E.
A. RYLANDS THOMAS O.B.E., B.Sc.(Eng)., M.I.C.E., F.ASCE.

Associates:-
A. L. LITTLE B.Sc.(Eng)., M.I.C.E., M.I.Struct.E.
C. F. COLEBROOK T.D., Ph.D., B.Sc.(Eng)., M.I.C.E., M.I.W.E.
A. C. BUCK M.Sc.(Eng)., M.I.C.E., M.N.Z.I.E.
D. M. WILLIAMS M.A., M.I.C.E.
T. G. HAMMOND M.B.E., M.I.C.E., M.I.W.E.
A. C. TWORT B.Sc., M.I.C.E., M.I.W.E.

Secretary:-
COL R. A. BISHOP

BINNIE & PARTNERS
CHARTERED CIVIL ENGINEERS

ARTILLERY HOUSE · ARTILLERY ROW
WESTMINSTER · LONDON · S W I

Telephone: ABBEY 6841-5
Telegrams: ARBINTRO, LONDON, S.W.I.
Telex: 24552

YOUR REF. PWD 141 GTW 62

OUR REF. PJN

24th November, 1964.

Mr. M. Channappa,
Deputy Secretary to Government,
Public Works Department (Irrigation),
Mysore Government Secretariat,
Vidhana Soudha,
Bangalore,
India.

1875
27 NOV
TAPPAL SECTION

Dear Sir,

Bangalore Water Supply
& Sanitation Schemes

We thank you for your letter dated 19th November 1964 and confirm having cabled you today as follows :

" REFERENCE YOUR LETTER PWD 141 GTW 62
OUR PARTNER NORRIS ARRIVING BANGALORE
TUESDAY FIRST DECEMBER "

A similar cable has been sent to the Chief Engineer (General) in accordance with the last paragraph of your letter.

Yours truly,
BINNIE & PARTNERS

Sri M. G. Sastri
27/11/64

27/11 Place it on Working file
Ramaniah
27/11

RT.

It appears Secy PWD wants to know the details about this. immediately after this when Para may be

30/1/89

S. MURIGHENDRASWAMY
Under Secy., PWD.,(Services).

DS (Brijpal)

Secy

This is a clear case of refusal to [illegible]
Investigate [illegible]
30/11

41 NEW IGHENDRA [illegible]
P.W.D. (Secy)

DC (S) [illegible]

MYSORE GOVT. SECRETARIAT
No
30 NOV 1964
INDIAN POSTS AND TELEGRAPHS DEPARTMENT
P.W.D. (RECEIPT &)

INVEST WISELY
Buy NATIONAL SAVINGS CERTIFICATES

29 11 64
BANGALORE

SECRETARY TO GOVERNMENT
Recd. 1964
PUBLIC WORKS & ELEC. DEPTT.

Prefix ★ Code No. C.

Sent at H. M.

To

By

Handed in at (Office of Origin) | Date | Hour | Minute | Service Instructions | Words

TO

2247 DA 1689 NEW DELHI 28 STE 26 WORKS SECRETARY GOVERNMENT

OF MYSORE BANGALORE

140-PHE ARRIVING BY PLANE AT 11.30 HOURS ON THE FIRST DECEMBER TO

PARTICIPATENEGOTIATIONS (.) - HOSPITALSINDIA =

NOTE B.—The name of the addressee should be written at the top, separated from the text.

MGIP Sant. 50 Telegraph (DGPT-63)—SFS/S-1/31/13—(G.Book)—6-5-64—5, 0,000 books.

Inform me also to P.W.D. Secy over phone
4/12

MYSORE GOVT. SECRETARIAT
No 648 Secy
1 DEC 1964
P.W.D. (RECEIPT)

INVEST WISELY
SAVINGS CERTIFICATES

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

SECRETARY TO GOVERNMENT
T-1992
PUBLIC WORKS & ELEC. DEPT.

Class
Prefix — Code — No. C.
Recd. from
Sent at 1 DEC 1964 M.
By
Handed in at (Office of Origin | Date | Hour | Minute | Service Instructions | Words

TO

Recd. here at H. M.

O 1915 DA 1176 MEW DELHI 30 17 WORKSEC BANGALORE

YOURTEL DATED 27TH INSTT STOP REGRET UNABLE ATTEND BINNIE NEGOTIATIC

STOP= VENKATARAMAN ECOFAIRS =

MYSORE GOVT. SECRETARIAT
No 1910
2 DEC 1964
P.W.D. (RECEIPT)

The name of the sender if telegraphed, should be written after, but separated from the text.

Santi—60 Telegraph (DG T-63)—SFS/8-1/31/13—(C-Book 6-5-64—5,00,000 s.

WORKSEC
BANGALORE

YOURTEL DATED 27TH INSTANT STOP REGRET
UNABLE ATTEND BINNIE NEGOTIATIONS STOP

VENKATARAMAN
ECOFAIRS

MYSORE GOVT. SECRET
1944
2 DEC 1964
Spl. Orign.

Not to be telegraphed

Sd
(M.K. Venkataraman)
Under Secretary
Ministry of Finance
(Deptt. of Economic Affairs)
Telephone No. 32643

No. 12(60)/63 F.B. dt 30/11

Copy by post in confirmation to The Secretary to the Government of Mysore, Public Works Department, Bangalore.

(M.K. Venkataraman)
Under Secretary to the Government of India

STATE TELEGRAM EXPRESS

WORKS SECRETARY
GOVERNMENT OF MYSORE
BANGALORE

3140-PHE ARRIVING BY PLANE AT 11.30 HOURS ON

THE FIRST DECEMBER TO PARTICIPATE

NEGOTIATIONS(.)

HOSPITALSINDIA

Not to be telegraphed:

MYSORE GOVT. SECRETARIAT
No 1915
2 DEC 1965

(S. RAJAGOPALAN)
DDG(PHE)
DGHS,
Patiala House,
New Delhi.

.....

New Delhi, dated 28.XI.64.

S. 4/62-PHE

Copy by post in confirmation to

the Works Secretary, PWD,
Government of Mysore,
Bangalore.

28/11/64.

(S. RAJAGOPALAN)
Deputy Director General(PHE)

GOVERNMENT OF MYSORE

No. PLM 104 MNY 64.

Mysore Government Sectt.,
Vidhana Soudha,
Bangalore, 1-12-1964

From ~~From~~

The Secretary to Government of Mysore,
P.H., Labour & Muppl. Admn. Department,
Bangalore.

To

The Chairman,
Bangalore Water Supply & Sewerage Board,
Mysore Government ~~Sec~~ Insurance Department Bldg.,
BANGALORE.

Sir,

Sub: Bangalore Water Supply Scheme-appointment of consultants.

I am directed to forward herewith for your information a copy* of letter No.F1(Mys)-s/WS/62PH dated 24.10.1964 received from the Ministry of Health, Government of India, New Delhi, on the subject cited above.

Yours faithfully,

(A.V.Mirza),
Under Secretary to Government,
PH, Labour and Municipal Admn. Dept

MYSORE GOVT. SECRET
1911
2 DEC 1964
P.W.D. (RECEIPTS)

Copy with a copy* of letter under reference to the Secretary, PWD Department, for information.

*copy.

I am directed to refer to D.O.letter No.F.12-60/63-EB, dated the 30th July 1964, from the Director (Exchange and Bank) to the Secretary to the Govt. of Mysore on the subject mentioned above, and to say that as the question of foreign exchange is involved the selection of the consultants should be made in consultation with this Ministry.

GOVERNMENT OF MYSORE.

Office of the Chief Engineer
(General), P.W.D.Offices,

No. BWSS/CON/64-65
Encl. 65 sheet

Bangalore, dated 7th Decr.64.

SECRETARY TO GOVERNMENT
No. T 2020
8 DEC 1964
PUBLIC WORKS & ELEC.

The Secretary to Government,
P.W.and Electricity Department,
Vidhana Soudha, Bangalore.

Sir,

Sub: Bangalore Water Supply Scheme -
Appointment of Consulting Engineers.

Ref: Government letter No.PWD 141 GTW 62
dated 18/19-11-1964 addressed to
M/s.Binnie and Partners, London.

-- f --

Inresponse to the above referred letter Mr.P.J.Norris Partner, Binnie and Partners came over to Bangalore on the 1st December 1964. The results of discussion and the recommendations are indicated in the enclosed proceedings and annexures thereto. One of the annexures is the draft agreement hammered out during these discussions with Mr.P.J.Norris.

It will be seen that on a comparative basis the total cost on account of appointing consulting engineers would be roughly Rs.63.00 lakhs in the case of M/s.Binnie and Partners and the same in the case of M/s.Tahal of Israel with whom negotiations were terminated would be Rs.89.00 lakhs, earlier appraisal of Rs.66.00 lakhs was not based on full implications such as (i) escalation in cost and (ii) Site supervision staff. Apart from this overall fiscal advantage it may be seen that the entire amount to be paid to M/s.Tahal would have been in foreign currency i.e. dollars to the tune of Rs.89.00 lakhs. However, out of Rs.63.00 lakhs to be paid to M/s.Binnie and Partners, as much as about Rs.12.00 lakhs uld be in rupees which means only about Rs.51 lakhs would be foreign currency i.e. sterling. Therefore the foreign nge differential between M/s.Tahal and Binnies would be

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of the order of Rs.38.00 lakhs which is a very great advantage to be reckoned with.

Under these circumstances, necessary action to finalise the appointment of M/s.Binnie and Partners may please be taken.

Yours faithfully,

(S.G. BALEKUNDRY)
CHIEF ENGINEER, GENERAL.

Enclosures: (1) Proceedings;
(2) Comparative statement showing the differential cost between M/s.Tahal and Binnie & Partners;
(3) Draft Agreement as furnished by Mr.P.J.Norris.
(4) Final draft agreement.

COMPAR
AND SA D WATER SUPPLY

rvices required under the	Partners.	Remarks.
NEW WORKS:		
Preparation of the project re drawings and Engineering docu necessary for securing forma of the appropriate Government department or other authority construction of the New Works of designs, drawings, specifi and preparing schedules and b quantities, making of interna other conditions of contract, tender and invitations to ten advising the client as to ten tenderers, prices and estimat carrying out of the works and of other services in connectic carrying out of the New Works of	63.11 lakhs	The details of works agreed to be done is more or less similar in both the cases. In the case of M/s.Binnie and Partners, there is no lumpsum amount provided. They have stated that for the site supervisory staff payments will have to be made over and above the 2.7 per cent which condition is also there in respect of Messrs. Tahal of Israel, who have stipulated that the Client should pay for the site staff. The cost involved [illegible] port expenses of the Consulting Engineer's staff.

the above, it an b of work done;
r total charge are l this may
in the order of Rs.90.

her point in favour want exemption.

Proceedings of the Meeting held in the Office of the Chief Engineer(General)P.W.D.Bangalore, on the 1st, 2nd, 3rd and 6th December 1964 to negotiate Consultancy services for the Watersupply and Sewerage Scheme for Bangalore City.

P R E S E N T :-

1. Shri.K.Narayanaswamy, IAS.,
   Chairman,
   Bangalore Watersupply and Sewerage Board,
   Bangalore.

2. Sri.M.Narasimhaiah, B.E., A.M.I.E.,
   Retired Chief Engineer,
   Member,
   Bangalore Watersupply and Sewerage Board,
   Bangalore.

3. Sri.S.Rajagopalan, (By special Invitation.)
   Deputy Director General of Health Services
   New Delhi.

4. Sri.S.G.Balekundry,B.E.,B.Sc.,Hons(Edin.).,
   Chief Engineer(General)PWD,
   Bangalore.

5. Sri.K.V.Gundappa,B.E., M.E.,(California)
   Officer on Special Duty,
   Bangalore Watersupply Scheme,
   Bangalore.

---

1. Pursuant to the decision taken by the Government of Mysore to invite Messrs.Binnie & Partners, Consulting Engineers, London, for negotiations to consider their appointment as Consultants for the above mentioned project, consultations and discussions were held with Mr. P.J.Norris, Partner of Messrs.Binnie & Partners, London, who came down to Bangalore for the purpose.

2. The terms and conditions of the firm for taking up the consultancy work in view, and a Draft Agreement prepared by them in this behalf, were gone into in detail with a view to defining the scope and content of their work and remuneration therefor. All relevant aspects of the problem were discussed at length and details of the proposals got clarified as a preliminary to arriving at agreed scales of remuneration, modes of payment and relative responsibilities of the Client and the Consultant. A modified draft of the Agreement to be entered into between the two parties was also finalised with the Representative of the Consulting Firm embodying the terms and conditions as finally acceptable to both the parties. The firm's representative has given a letter of consent on behalf of the firm signifying the firm's willingness to undertake the work on the terms and conditions as set out

contd

in this draft Agreement.

3. A copy of the Draft Agreement in question together with the draft proposals as brought by the Firm's representative prior to the conduct of the negotiations is enclosed. A comparative Statement is also attached showing the probable financial commitments involved in the terms and conditions negotiated earlier with Messrs. Tahal(Water Planning)Israel, and as now negotiated with Messrs.Binnie & Partners,London.

4. It was felt that the terms and conditions as now negotiated with Messrs.Binnie & Partners,London, which, according to the firm, constitute their irreducible minimum, are quite satisfactory and acceptable and can be considered as the most attractive offer for this work which could be secured from Consulting firms of repute in the line. Furthermore, the Foreign Exchange component of the remuneration for consultancy service in this case has been reduced very considerably, and represents perhaps the minimum that could be negotiated for the purpose.

5. On a due consideration of all aspects, it was decided to recommend the terms and conditions as finally agreed to with Messrs.Binnie & Partners, London, for final acceptance by the State Government and Government of India and the Chief Engineer (General) was requested to address the Government accordingly.

6. In view of the urgency for proceeding with the further stages of this work, it is essential that orders are issued and steps taken to conclude an Agreement with the firm as soon as possible so as to enable them to prepare the necessary preliminary project report with which the State Government have to approach the World Bank for negotiating a loan for the projec early in 1965.

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b.v.s.

27

PUBLIC WORKS DEPARTMENT.

Government of Mysore.

BANGALORE

INTEGRATED WATERSUPPLY AND SANITARY SCHEME.

AGREEMENT FOR ENGINEER SERVICES.

As furnished by P. J. Norris of Binni & Partners

BANGALORE
INTEGRATED WATERSUPPLY
AND SANITARY SCHEME.

**

MEMORANDUM OF AGREEMENT.

THIS AGREEMENT made the _____ day of ___ in the year one thousand nine hundred and sixty_____ BETWEEN the Public Works and Electricity Department, Government of Mysore its assigns and successors at Law (hereinafter called "the Client") of the one part and Binnie and Partners practising as Consulting Engineers at Artillery House, Artillery Row, London, S.W.1(hereinafter referred to as the Consultant) of the other part.

WHEREAS the Client intends to proceed with

(i) the construction of a river intake on the River Cauvery, treatment works, pumping stations, ancillary works to provide the City of Bangalore with an additional supply of 60 mgd. together with a 60" diameter pipeline to Bangalore

(ii) the construction of two sewage treatment works(the above are hereinafter called "the works")

and

(iii) the remodelling of the existing watersupply distribution system

(iv) the remodelling of the existing sewerage system

(the above are hereinafter called "the Remodelling Works")

and has requested the Consultant to undertake and perform the duties hereinafter mentioned which the Consultant has agreed to do upon and subject to the terms and conditions hereinafter set forth.

NOW THIS AGREEMENT WITNESSETH and it is hereby agreed and declared by and between the parties hereto as follows:-

1. Appointment of Consultant - The Client hereby appoints the Consultant and the Consultant accepts the appointment on the terms and conditions hereinafter set forth.

2. Duties of Consultant -

I. The duties to be performed by the Consultant in respect of the Works are:-

A. The preparation of the drawings and engineering documents necessary for seeking the formal approval of the appropriate Government Department or other Authority to the construction of the Works and the preparation of all drawings and other documents to enable the Works to be tendered for internationally or otherwise ordered by the Client, including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the Works.

(b) Advice to the Client as to the necessity for special investigations of conditions of sub soil, or weather and arranging on the Client's behalf for boring tests, trial pits, test piling models, laboratory tests, or other investigations as may be necessary.

c) The making of designs, drawings, specifications and preparing schedules or bills of quantities.

(d) The making or adapting of conditions of contract forms of tender and invitations to tender and submitting the same for approval and decision of the Client.

(e) Obtaining advice on the architectural treatment of the Works or on other specialist matters as necessary.

(f) Advising the Client as to tenders, tenderers, prices and estimates for the carrying out of the Works provided that no tender shall be accepted or order placed by the Consultant except on

on behalf of the Client and with his authority in writing.

B. The general supervision of and other services in connection with the carrying out of the works, including as may be necessary in the particular case:-

(a) Advising as to the preparation of the contract for accepted tenders.

(b) Preparing any further plans, designs and drawings necessary for the carrying out of the Works.

(c) Examining and approving Contractor's details.

(d) Arranging for the inspection and testing during manufacture of machinery.

(e) Issuing instructions to Contractors and generally supervising the execution of the Works, including such site visits as the Consultant considers necessary.

(f) Issuing all certificates for payments to Contractors.

(g) Supervising acceptance tests on site.

(h) Assisting in settling disputes or differences that may arise between the Client and Contractors excepting litigation and arbitration.

(i) Providing the Client on completion of the Works with such record drawings as are necessary for operation and maintenance.

(j) The submission of regular periodic reports on the scheduled and actual progress of the work.

II. The duties to be performed by the Consultant in respect of the Remodelling Works are:

A. To review the designs of the Public Works Department for the remodelling Works.

B. To direct only the subsequent detailed design and preparation of tender documents and construction of the remodelling works, all of which will be carried out in stages by the Public Works Department, or the Water Supply and Sanitation Branch.

The Consultant shall use such qualified and experienced staff as is necessary to carry out all the works abovementioned.

3. Remuneration of Consultant -

I. The remuneration of the Consultant for the performance of the necessary services under Clause 2-I of this agreement shall be a percentage fee of 2 7/8% (two and seven eights percent) of the actual cost of the Works, subject to the limitation that, should the cost of the Works be reduced to below an estimated cost of 14½ crores, the Consultant will require an increased percentage fee.

Payment shall be made in quarterly instalments as set out in Appendix(1).

In the event of the Works or any part thereof being cancelled or postponed at any stage after the duties enumerated in Clause 2A(a)(b) and (c) have been completed then 70 per cent of the fees in respect of the aforesaid cancelled or postponed Works shall be paid.

Payments or intermetidate payments under this Clause shall be calculated on the cost of the accepted tender, or if no such tender has been received, on the best estimate of the works at the time payments become due. Such payments or intermediate payments shall rank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the Works, as defined in Clause 8.

II. The remuneration of the Consultant for the performance of the necessary services under Clause 2 -II of this agreement shall be based on a rate of 2 rupees per hour per 1,333 rupees of the gross annual salary (see definition Appendix (2) for each hour spent by the Consultant's engineering staff on the remodelling works as certified by the Consultant's Auditors, and at a rate of 80 rupees per hour for time spent by partners on this work.

Payments shall be made quarterly on submission of the Consultant's account.

4. Special Expenses -

In addition to the remunderation to be paid under this agreement the Consultant shall be reimbursed the Client all special expenses actually and properly incurred in connection with the works in respect of:-

(a) Fees for legal advice taken or sought on behalf of the Client.

(b) Laboratory or model tests undertaken by arrangement with the Client.

(c) The salaries, travelling expenses and allowances including accommodation allowance unless this is provided under one of the Civil Contracts, of the resident site staff provided or appointed to supervise construction of the Works, under the Scales set out in Appendix(3) of this Agreement.

(d) The establishment and maintenance of site offices as may be required in so far as these are not provided under any of the Client's civil contracts.

Payments under (a) and (b) above shall be made quarterly and payments under (c) and (d) monthly upon submission of the Consultant's account.

(c) The salaries, travelling expenses and allowances including accommodation allowance unless this is provided under one of the Civil Contracts, of the resident site staff provided or appointed to supervise construction of the works, under the Scales set out in Appendix (3) of this Agreement.

(d) The establishment and maintainance of site offices as may be required in so far as these are not provided under any of the Client's Civil contracts.

Payments under (a) and (b) above shall be made quarterly and payments under (c) and (d) monthly upon submission of the Consultant's account.

5. Method of Payment.

(a) All sums due to the Consultant under Clauses 3, 4(a), 4(b) of this Agreement shall be paid in pounds sterling to the Consultant's account with the Westminster Bank Ltd., 62, Victoria Street, London, S.W.1., within 40 days of the submission of the account.

(b) The advance payment due to the Consultant under Appendix (3) to Clause 4(c) and 4(d) of this agreement shall be paid 50% in sterling to the Consultant's Bank in London and 50% in Rupees to the Consultant's Bank (to be nominated) in India, both within 40 days of the submission of the Account.

(c) The monthly payments due to the Consultant under Clause 4(c) and (d) of the agreement shall be paid in the proportions laid down in Appendix 3, the sterling element to the Consultants' Bank in London and the Rupees element to the Consultants' Bank in India. Monthly payments shall be made within

30 days of submission by the Consultants' senior representative in India of a statement of the numbers of supervisory site staff present and the amounts due etc.

(d) Interest at the rate of five per cent per annum (calculated daily) shall be added to all payments due to the Consultant but not paid within the periods given in Clauses 6(a)(b) and (c).

(e) All sums due to the Consultant in sterling shall be calculated using a fixed rate of exchange of 13-1/3 (thirteen and one third) rupees to the pound sterling.

6. Additional Duties - Should the Client require the consultant to undertake additional duties such as advising or assisting in connection with:-

(a) The valuation purchase sale or leasing of lands or the obtaining of wayleaves.

(b) The failure of any contractor to perform his contract.

(c) Arbitration or other legal proceedings

then the Consultant shall undertake such duties on terms and conditions to be agreed between the parties.

7. Site Surveys - Should the Consultant consider that additional survey of any of the sites is advisable, this will be carried out by the Public Works Department on the recommendation of the Consultant.

8. Cost of Works - A. For the purpose of ascertaining the remuneration to be paid under Clause 3-I hereof the cost of the Works or any part thereof shall be deemed to include:

(a) The amount certified to the Contractor or the amount certified as cost of works if carried out by direct labour, of works designed specified or supervised by

the Consultant before deduction of liquidated damages or penalties(if any);

(b) The market value of any manufactured goods, machinery and second hand materials, incorporated in the works.

8. The cost of the Works shall not include the following items:-

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the Works.

(e) Cost of land and wayleaves.

(f) Import Duty, customs dues, etc. on imported plant and materials.

9. Supervision on site - The Consultant shall appoint on terms and conditions, subject to the approval of the Client, which shall not be unreasonably withheld, an expatriate Chief Resident Engineer, Resident Engineers, and such Assistant Engineers and Inspectors as are deemed necessary for the efficient supervision of staff on site.

Where possible the Client will recommend local suitably qualified engineers as Assistant Engineers and Inspectors and, subject to the approval of the Consultant, which shall not be unreasonably withheld, such engineers will be employed as part of the supervisory staff.

Such staff shall take instructions from the Consultants only.

10. Damage or Destruction of works - If at any time before the completion of the Works any part of the works or the equipment therefor shall be damaged or destroyed by operations of war or other cause, the Client shall pay to the

Consultant the appropriate fee for any additional work which may be required to be designed and supervised by them as a result of such damage or destruction.

11. Postponement, Cancellation or Abandonment of Works - In the event of the whole or any part of the Works being postponed, cancelled or abandoned then the payment to be made to the Consultant for services performed in respect of the part of the Works so postponed, cancelled or abandoned shall be determined in accordance with Clause 3 and such other Clauses of this Agreement as may be applicable thereto(with such appropriate adjustments as may be necessary having regard to the services performed prior to the Works being so postponed, cancelled or abandoned). Payments under this Clause shall be calculated on the best estimate of the value of the relevant part of the works had it been completed at the time of its postponement, cancellation or abandonment. If, at a later date, the Works which have been postponed, cancelled or abandoned or any part thereof are again proceeded with, any payment made under this Clause shall rank solely as payments on account towards the total fee ultimately payable on such works and calculated on their actual cost. If the whole or any part of the Works is postponed and additional services by the Consultant are necessary in connection with the resumption of such Works, a fee additional to the amounts payable under Clause 3 and other clauses hereof shall be due, the fee being on an agreed basis.

12. Alterations or Modifications to Designs - In the event of circumstances arising which could not have been reasonably foreseen, or in the event of the Client ordering modifications to completed designs or alterations to designs in progress, which require the alteration or remaking of any specification, drawings or other documents prepared in whole or in part by the Consultant, the whole of the cost of revising amending, or reproducing documents to bring the work upto the

stage at which it was modified shall be the subject of additional payment, computed on an agreed basis, together with any out-of-pocket expenses incurred.

13. Care and Diligence - The Consultant shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by them and in so far as any of their duties are discretionary shall act fairly as between the Client and the Contractor or Contractors. The Consultant shall have authority to make minor alterations to design involving minor variations to cost as may be necessary or expedient, but he shall obtain prior approval of the Client to any substantial modification of the design and cost of the Works and to any instruction to a Contractor which constitutes a substantial variation, omission or addition to the contract.

14. Information to be supplied to the Consultant - The Client shall furnish all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consultant of the duties under this Agreement and the Consultant and the Client shall use all reasonable expedition and despatch in carrying out the provisions of this Agreement.

15. Ownership of Documents and Copyright - All documents prepared by the Consultant in connection with the Works are the property and copyright of the Consultant, and the Client shall not be entitled, either directly or indirectly, to make use of such documents for the carrying out of any work beyond the works to which this Agreement relates, without prior approval of the Consultant.

16. Publicity Relating to the Works - In cases where notice or display boards are erected on the site, the Consultant shall have the right, if he so elects, to have his name, designation and address inscribed on such boards, and to

have his name and designation included when commemorative tables or stones are provided in the finished structure. The consultant shall also have the right, subject to Client's approval, to publish descriptive articles with or without illustrations, relevant to the Works, either on his own account or in conjunction with other parties concerned.

17. Non-assignment - The Consultant shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof, but it shall be lawful for the Consultant at any time to take into partnership another Partner or Partners and he or they shall then be deemed to be included in the expression "the Consultant", where the context so allows or permits.

18. Arbitration - Any dispute or difficulty arising out of this Agreement shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules. This Agreement shall, in all respects, be read and construed in accordance with Swiss Law.

As WITNESS the parties hereto the day and year first above written.

Signed by the Secretary to Government of Mysore, Public works and Electricity Department, Mysore. Government Secretariat on behalf of the Government of Mysore, in the presence of

SIGNED BY

For and on behalf of Binnie and Partners

In the presence of

APPENDIX (1)

Payments under Clause 31.

Quarterly payments shall be made throughout the design, construction and maintenance period applying to the works which is estimated to be 5 years.

The first four quarterly payments shall be £15,000 per quarter commencing 3 months after the signing of this Agreement and thereafter the remaining quarterly payments shall be not less than one-twentieth of the current estimated total fee for the new works subject to such additions as may be necessary to bring the fees paid in respect of any completed Works to 2 7/8 per cent of the actual cost thereof.

APPENDIX (2)

Definition of 'Gross Annual Salary'

1. 'Gross annual salary' cost means the cost to the Consultant of associates, engineers and specialists, draughtsmen and tracers employed at the London Office, including net salary before deduction of income tax, and employers contribution to National Insurance, State graduated pension scheme and the Consultant's pension scheme. The cost of any bonus paid by the Consultant to employees is excluded.

2. The number of working hours per year is assumed to be 1,750.

3. Time spent on the project is determined from employee's time sheets certified by the consultant and the Firm's Chartered Accountants and Auditors.

nrr/-

APPENDIX 3.

Monthly Charges for Site Supervisory Staff.

Category	Description	Minimum Experience.	Total Monthly Charge Rupees plus Pounds Sterling.	Payable in Rupees pounds.	Monthly Accommodation Allowance.
			In Rs.	In Rs. in Rs.	in Rs.
	Expatriate Staff				
E.1.	Chief Resident Engineer and/or representative				
E.2.	Resident Engineer				
E. 3.	Assistant Engineer				
E. 4.	Inspector				
	Locally Engaged Staff.				
L. 1.	Assistant Engineers				
L. 2.	Junior Engineers				
L. 3.	Inspectors				
L. 4.	Chief Clerk				
L. 5.	Clerks				
L. 6	Drivers				
L. 7.	Laboratory Assistants				
L. 8.	Survey Assistants				
L. 9.	Office Boys & Cleaners Maintenance of an Office.				

Experience of the engineering staff will be counted from the date of obtaining a Bachelor's degree or its equivalent.

APPENDIX 3 Contd.

The above monthly charge includes for:-

(a) All salary, social security payments, overtime payments, Bonuses, pension contributions, leave pay.

(b) All subsistence and other allowances other than the accomodation allowance for expatriate engineers defined below.

(c) All travel expenses to and from the sites of work, leave passages and baggage allowances (including those for families).

(d) All medical care (including those for families).

The monthly charge is payable to the consultant from the date of arrival in India to the date of departure from India upon completion of duties and periods of less than a month shall be charged pro rata. No deductions shall be made for absence from site on duty or on leave in India or for national or religious holidays.

Staff who have to leave the site due to sickness, leave or usuitability will be replaced by the Consultant's at the appropriate rate of charging.

Payments.

(a) An advance payment of 60,000 ruppes, payable 50% in pounds sterling and 50% in rupees, shall be made upon the arrival of the first member of the Consultant's resident site staff in India and this will be offset against the Consultant's account in twelve equal instalments commencing twelve months after the date of the advance payment.

(b) Payments shall be made monthly upon submission of the Consultant's account.

(c) An accomodation allowance of Rupees per month shall be payable to the Consultant in respect of expatriate staff untill such time as rent free accomodation of a standard acceptable to the Consultant has been provided by the Client or under one or more of the Client's Civil Contracts.

PUBLIC WORKS DEPARTMENT.

Government of Mysore.

BANGALORE

INTEGRATED WATERSUPPLY AND SANITARY SCHEME.

AGREEMENT FOR ENGINEER SERVICES.

BANGALORE
INTEGRATED WATERSUPPLY
AND SANITARY SCHEME.

MEMORANDUM OF AGREEMENT.

THIS AGREEMENT made the _____ day of ___ in the year one thousand nine hundred and sixty_____ BETWEEN the Public Works and Electricity Department, Government of Mysore its assigns and successors at Law (hereinafter called "the Client") of the one part and Binnie and Partners practising as Consulting Engineers at Artillery House, Artillery Row, London, S.W.1(hereinafter referred to as the Consultant) of the other part.

WHEREAS the Client intends to proceed with

(i) the construction of a river intake on the River Cauvery, treatment works, pumping stations, ancillary works to provide the City of Bangalore with an additional supply of 60 mgd. together with a 60" diameter pipeline to Bangalore

(ii) the construction of two sewage treatment works(the above are hereinafter called "the works")

and

(iii) the remodelling of the existing watersupply distribution system

(iv) the remodelling of the existing sewerage system

(the above are hereinafter called "the Remodelling Works")

and has requested the Consultant to undertake and perform the duties hereinafter mentioned which the Consultant has agreed to do upon and subject to the terms and conditions hereinafter set

NOW THIS AGREEMENT WITNESSETH and it is hereby agreed and declared by and between the parties hereto as follows:-

1. Appointment of Consultant - The Client hereby appoints the Consultant and the Consultant accepts the appointment on the terms and conditions hereinafter set forth.

2. Duties of Consultant -

I. The duties to be performed by the Consultant in respect of the Works are:-

A. The preparation of the drawings and engineering documents necessary for seeking the formal approval of the appropriate Government Department or other Authority to the construction of the Works and the preparation of all drawings and other documents to enable the Works to be tendered for internationally or otherwise ordered by the Client, including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the Works.

(b) Advice to the Client as to the necessity for special investigations of conditions of sub soil, or weather and arranging on the Client's behalf for boring tests, trial pits, test piling models, laboratory tests, or other investigations as may be necessary.

(c) The making of designs, drawings, specifications and preparing schedules or bills of quantities.

(d) The making or adapting of conditions of contract forms of tender and invitations to tender and submitting the same for approval and decision of the Client.

(e) Obtaining advice on the architectural treatment of the Works or on other specialist matters as necessary.

(f) Advising the Client as to tenders, tenderers, prices and estimates for the carrying out of the Works provided that no tender shall be accepted or order placed by the Consultant except on

on behalf of the Client and with his authority in writing.

B. The general supervision of and other services in connection with the carrying out of the Works, including as may be necessary in the particular case:-

(a) Advising as to the preparation of the contract for accepted tenders.

(b) Preparing any further plans, designs and drawings necessary for the carrying out of the Works.

(c) Examining and approving Contractor's details.

(d) Arranging for the inspection and testing during manufacture of machinery.

(e) Issuing instructions to Contractors and generally supervising the execution of the Works, including such site visits as the Consultant considers necessary.

(f) Issuing all certificates for payments to Contractors.

(g) Supervising acceptance tests on site.

(h) Assisting in settling disputes or differences that may arise between the Client and Contractors excepting litigation and arbitration.

(i) Providing the Client on completion of the Works with such record drawings as are necessary for operation and maintenance.

(j) The submission of regular periodic reports on the scheduled and actual progress of the work.

II. The duties to be performed by the Consultant in respect of the Remodelling Works are:

A. To review the designs of the Public Works Department for the remodelling Works.

B. To direct only the subsequent detailed design and preparation of tender documents and construction of the remodelling works, all of which will be carried out in stages by the Public Works Department, or the Water Supply and Sanitation Branch.

The Consultant shall use such qualified and experienced staff as is necessary to carry out all the works abovementioned.

3. Remuneration of Consultant -

I. The remuneration of the Consultant for the performance of the necessary services under Clause 2-I of this agreement shall be a percentage fee of 2 7/8% (two and seven eights percent) of the actual cost of the Works, subject to the limitation that, should the cost of the Works be reduced to below an estimated cost of 14½ crores, the Consultant will require an increased percentage fee.

Payment shall be made in quarterly instalments as set out in Appendix(1).

In the event of the Works or any part thereof being cancelled or postponed at any stage after the duties enumerated in Clause 2A(a)(b) and (c) have been completed then 70 per cent of the fees in respect of the aforesaid cancelled or postponed Works shall be paid.

Payments or intermetidate payments under this Clause shall be calculated on the cost of the accepted tender, or if no such tender has been received, on the best estimate of the works at the time payments become due. Such payments or intermediate payments shall rank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the Works, as defined in Clause 8.

II. The remuneration of the Consultant for the performance of the necessary services under Clause 2 -II of this agreement shall be based on a rate of 2 rupees per hour per 1,333 rupees of the gross annual salary (see definition Appendix (2) for each hour spent by the Consultant's engineering staff on the remodelling works as certified by the Consultant's Auditors, and at a rate of 80 rupees per hour for time spent by partners on this work.

Payments shall be made quarterly on submission of the Consultant's account.

4. Special Expenses -

In addition to the remunderation to be paid under this agreement the Consultant shall be reimbursed by the Client all special expenses actually and properly incurred in connection with the works in respect of:-

(a) Fees for legal advice taken or sought on behalf of the Client.

(b) Laboratory or model tests undertaken by arrangement with the Client.

(c) The salaries, travelling expenses and allowances including accommodation allowance unless this is provided under one of the Civil Contracts, of the resident site staff provided or appointed to supervise construction of the Works, under the Scales set out in Appendix(3) of this Agreement.

(d) The establishment and maintenance of site offices as may be required in so far as these are not provided under any of the Client's civil contracts.

Payments under (a) and (b) above shall be made quarterly and payments under (c) and (d) monthly upon submission of the Consultant's account.

(c) The salaries, travelling expenses and allowances including accommodation allowance unless this is provided under one of the Civil Contracts, of the resident site staff provided or appointed to supervise construction of the works, under the Scales set out in Appendix (3) of this Agreement.

(d) The establishment and maintainance of site offices as may be required in so far as these are not provided under any of the Client's Civil contracts.

Payments under (a) and (b) above shall be made quarterly and payments under (c) and (d) monthly upon submission of the Consultant's account.

5. Method of Payment.

(a) All sums due to the Consultant under Clauses 3, 4(a), 4(b) of this Agreement shall be paid in pounds sterling to the Consultant's account with the Westminster Bank Ltd., 62, Victoria Street, London, S.W.1., within 40 days of the submission of the account.

(b) The advance payment due to the Consultant under Appendix (3) to Clause 4(c) and 4(d) of this agreement shall be paid 50% in sterling to the Consultant's Bank in London and 50% in Rupees to the Consultant's Bank (to be nominated) in India, both within 40 days of the submission of the Account.

(c) The monthly payments due to the Consultant under Clause 4(c) and (d) of the agreement shall be paid in the proportions laid down in Appendix 3, the sterling element to the Consultants' Bank in London and the Rupees element to the Consultants' Bank in India. Monthly payments shall be made within

30 days of submission by the Consultants' senior representative in India of a statement of the numbers of supervisory site staff present and the amounts due etc.

(d) Interest at the rate of five per cent per annum (calculated daily) shall be added to all payments due to the Consultant but not paid within the periods given in Clauses 6(a)(b) and (c).

(e) All sums due to the Consultant in sterling shall be calculated using a fixed rate of exchange of 13-1/3 (thirteen and one third) rupees to the pound sterling.

6. Additional Duties - Should the Client require the consultant to undertake additional duties such as advising or assisting in connection with:-

(a) The valuation purchase sale or leasing of lands or the obtaining of wayleaves.

(b) The failure of any contractor to perform his contract.

(c) Arbitration or other legal proceedings

then the Consultant shall undertake such duties on terms and conditions to be agreed between the parties.

7. Site Surveys - Should the Consultant consider that additional survey of any of the sites is advisable, this will be carried out by the Public Works Department on the recommendation of the Consultant.

8. Cost of Works - A. For the purpose of ascertaining the remuneration to be paid under Clause 3-I hereof the cost of the works or any part thereof shall be deemed to include:

(a) The amount certified to the Contractor or the amount certified as cost of works if carried out by direct labour, of works designed specified or supervised by

the Consultant before deduction of liquidated damages or penalties(if any).

(b) The market value of any manufactured goods, machinery and second hand materials, incorporated in the works.

8. The cost of the Works shall not include the following items:-

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the Works.

(e) Cost of land and wayleaves.

(f) Import Duty, customs dues, etc. on imported plant and materials.

9. Supervision on site - The Consultant shall appoint on terms and conditions, subject to the approval of the Client, which shall not be unreasonably withheld, an expatriate Chief Resident Engineer, Resident Engineers, and such Assistant Engineers and Inspectors as are deemed necessary for the efficient supervision of staff on site.

Where possible the Client will recommend local suitably qualified engineers as Assistant Engineers and Inspectors and, subject to the approval of the Consultant, which shall not be unreasonably withheld, such engineers will be employed as part of the supervisory staff.

Such staff shall take instructions from the Consultants only.

10. Damage or Destruction of works - If at any time before the completion of the Works any part of the works or the equipment therefor shall be damaged or destroyed by operations of war or other cause, the Client shall pay to the

Consultant the appropriate fee for any additional work which may be required to be designed and supervised by them as a result of such damage or destruction.

11. Postponement, Cancellation or Abandonment of Works - In the event of the whole or any part of the Works being postponed, cancelled or abandoned then the payment to be made to the Consultant for services performed in respect of the part of the Works so postponed, cancelled or abandoned shall be determined in accordance with Clause 3 and such other Clauses of this Agreement as may be applicable thereto(with such appropriate adjustments as may be necessary having regard to the services performed prior to the Works being so postponed, cancelled or abandoned). Payments under this Clause shall be calculated on the best estimate of the value of the relevant part of the works had it been completed at the time of its postponement, cancellation or abandonment. If, at a later date, the Works which have been postponed, cancelled or abandoned or any part thereof are again proceeded with, any payment made under this Clause shall rank solely as payments on account towards the total fee ultimately payable on such works and calculated on their actual cost. If the whole or any part of the Works is postponed and additional services by the Consultant are necessary in connection with the resumption of such Works, a fee additional to the amounts payable under Clause 3 and other clauses hereof shall be due, the fee being on an agreed basis.

12. Alterations or Modifications to Designs - In the event of circumstances arising which could not have been reasonably foreseen, or in the event of the Client ordering modifications to completed designs or alterations to designs in progress, which require the alteration or remaking of any specification, drawings or other documents prepared in whole or in part by the Consultant, the whole of the cost of revising amending, or reproducing documents to bring the work upto the

stage at which it was modified shall be the subject of additional payment, computed on an agreed basis, together with any out-of-pocket expenses incurred.

13. Care and Diligence - The Consultant shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by them and in so far as any of their duties are discretionary shall act fairly as between the Client and the Contractor or Contractors. The Consultant shall have authority to make minor alterations to design involving minor variations to cost as may be necessary or expedient, but he shall obtain prior approval of the Client to any substantial modification of the design and cost of the works and to any instruction to a Contractor which constitutes a substantial variation, omission or addition to the contract.

14. Information to be supplied to the Consultant - The Client shall furnish all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consultant of the duties under this Agreement and the Consultant and the Client shall use all reasonable expedition and despatch in carrying out the provisions of this Agreement.

15. Ownership of Documents and Copyright - All documents prepared by the Consultant in connection with the Works are the property and copyright of the Consultant, and the Client shall not be entitled, either directly or indirectly, to make use of such documents for the carrying out of any work beyond the works to which this Agreement relates, without prior approval of the Consultant.

16. Publicity Relating to the Works - In cases where notice or display boards are erected on the site, the Consultant shall have the right, if he so elects, to have his name, designation and address inscribed on such boards, and to

have his name and designation included when commemorative tables or stones are provided in the finished structure. The consultant shall also have the right, subject to Client's approval, to publish descriptive articles with or without illustrations, relevant to the Works, either on his own account or in conjunction with other parties concerned.

17. Non-assignment - The Consultant shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof, but it shall be lawful for the Consultant at any time to take into partnership another Partner or Partners and he or they shall then be deemed to be included in the expression "the Consultant", where the context so allows or permits.

18. Arbitration - Any dispute or difficulty arising out of this Agreement shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules. This Agreement shall, in all respects, be read and construed in accordance with Swiss Law.

As WITNESS the parties hereto the day and year first above written:

Signed by the Secretary to Government of Mysore, Public works and Electricity Department, Mysore Government Secretariat on behalf of the Government of Mysore, in the presence of

SIGNED BY

For and on behalf of Binnie and Partners

In the presence of

APPENDIX (1)

Payments under Clause 31.

Quarterly payments shall be made throughout the design, construction and maintenance period applying to the works which is estimated to be 5 years.

The first four quarterly payments shall be £15,000 per quarter commencing 3 months after the signing of this Agreement and thereafter the remaining quarterly payments shall be not less than one-twentieth of the current estimated total fee for the new works subject to such additions as may be necessary to bring the fees paid in respect of any completed Works to 2 7/8 per cent of the actual cost thereof.

APPENDIX (2)

Definition of 'Gross Annual Salary'

1. 'Gross annual salary' cost means the cost to the Consultant of associates, engineers and specialists, draughtsmen and tracers employed at the London Office, including net salary before deduction of income tax, and employers contribution to National Insurance, State graduated pension scheme and the Consultant's pension scheme. The cost of any bonus paid by the Consultant to employees is excluded.

2. The number of working hours per year is assumed to be 1,750.

3. Time spent on the project is determined from employee's time sheets certified by the consultant and the Firm's Chartered Accountants and Auditors.

nrr/-

APPENDIX 3.

Monthly Charges for Site Supervisory Staff.

Category	Description	Minimum Experience.	Total Monthly Charge Rupees plus Pounds Sterling.	Payable in Rupees	Payable in pounds.	Monthly Accommodation Allowance.
			In Rs.	In Rs.	in Rs.	in Rs.
	Expatriate Staff					
E.1.	Chief Resident Engineer and/or representative					
E.2.	Resident Engineer					
E. 3.	Assistant Engineer					
E. 4.	Inspector					
	Locally Engaged Staff.					
L. 1.	Assistant Engineers					
L. 2.	Junior Engineers					
L. 3.	Inspectors					
L. 4.	Chief Clerk					
L. 5.	Clerks					
L. 6	Drivers					
L. 7.	Laboratory Assistants					
L. 8.	Survey Assistants					
L. 9.	Office Boys & Cleaners Maintenance of an Office.					

Experience of the engineering staff will be counted from the date of obtaining a Bachelor's degree or its equivalent.

APPENDIX 3 Contd.

The above monthly charge includes for:-

(a) All salary, social security payments, overtime payments, Bonuses, pension contributions, leave pay.

(b) All subsistence and other allowances other than the accomodation allowance for expatriate engineers defined below.

(c) All travel expenses to and from the sites of work, leave passages and baggage allowances (including those for families).

(d) All medical care (including those for families).

The monthly charge is payable to the consultant from the date of arrival in India to the date of departure from India upon completion of duties and periods of less than a month shall be charged pro rata. No deductions shall be made for absence from site on duty or on leave in India or for national or religious holidays.

Staff who have to leave the site due to sickness, leave or usuitability will be replaced by the Consultant's at the appropriate rate of charging.

Payments.

(a) An advance payment of 60,000 ruppes, payable 50% in pounds sterling and 50% in rupees, shall be made upon the arrival of the first member of the Consultant's resident site staff in India and this will be offset against the Consultant's account in twelve equal instalments commencing twelve months after the date of the advance payment.

(b) Payments shall be made monthly upon submission of the Consultant's account.

(c) An accomodation allowance of Rupees per month shall be payable to the Consultant in respect of expatriate staff untill such time as rent free accomodation of a standard acceptable to the Consultant has been provided by the Client or under one or more of the Client's Civil Contracts.

BANGALORE INTEGRATED WATER SUPPLY AND SANITATION SCHEME

MEMORANDUM OF AGREEMENT.

This Agreement made the.....day of..... in the year one thousand nine hundred and sixty between the Bangalore Water Supply and Sewerage Board, its assigns and successors at Law (hereinafter called the Client) of the one part and Binnie and Partners practising as Consulting Engineers at Artillery House, Artillery Row, London, S.W.1. (hereinafter referred to as the Consultant) of the other part.

WHEREAS the Client intends to proceed with the following works, viz.,

(i) Construction of syphon across Handihalla, gravity main, water treatment plant, reservoirs at treatment works, treatment plant buildings, pumping stations, reservoirs at the pumping stations, and pipelines from the treatment works to the terminal reservoirs within the Metropolitan area of Bangalore, to provide an additional water supply of 60(sixty) million gallons per day from the River Cauvery

(ii) Construction of two sewage treatment works

(i) and (ii) above are hereinafter called the New Works

(iii) Remodelling and extending the existing water supply distribution system

(iv) Remodelling and extending the existing sewerage system

(iii) and (iv) above are hereinafter called the Remodelling Works, the extent and scope being generally as indicated on the drawings and documents already prepared by the Client.

and has requested the Consultant to undertake and perform the duties hereinafter mentioned which the Consultant has agreed to do upon and subject to the terms and conditions hereinafter set forth.

NOW THIS AGREEMENT WITNESSETH and it is hereby agreed and declared by and between the parties hereto as follows:

I. APPOINTMENT OF CONSULTANT:-

The Client hereby appoints the Consultant and the Consultant accepts the appointment on the terms and conditions hereinafter set forth.

II. DUTIES OF THE CONSULTANT:-

(1) The duties to be performed by the Consultant in respect of New Works are:

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents necessary for seeking the formal approval of the appropriate Government Department or other authority to the construction of the New Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the New Works.

(b) Advice to the Client as to the necessity for additional field surveys and for special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

(a) Obtaining advice on the architectural treatment of the New Works or on other specialist matters as necessary.

(b) The making of designs, drawings, specifications and preparing schedules or bills of quantities, copies of all of which shall be made available to the Client.

(c) The making or adapting of international or other conditions of contract, forms of tender and invitations to tender and submitting the same

the same for the approval and decision of the Client.

(C) CONSTRUCTION STAGE:-

(a) Advising the Client as to tenders, tenderers, prices and estimates for the carrying out of the New Works provided that no tender shall be accepted or order placed by the Consultant except on behalf of the Client and with his authority in writing.

(b) The supervision of and other services in connection with the carrying out of the New Works including as may be necessary in the particular case:-

(i) Advising as to the preparation of the contract for accepted tenders.

(ii) Preparing any further plans, designs and drawings necessary for the carrying out of the New Works.

(iii) Examining and approving Contractors' details.

(iv) Arranging for the inspection and testing during manufacture of machinery and pressure pipes.

(v) Issuing instructions to Contractors and supervising the execution of the New Works including such site visits by the partners and senior staff as the Consultant considers to be necessary.

(vi) Issuing all certificates for payments to Contractors.

(vii) Supervising acceptance tests on site.

(viii) Assisting in settling disputes or differences that may arise between the Client and Contractors excepting litigation and arbitration.

(ix) Submission of regular monthly reports on the scheduled and actual progress of the New Works.

(x) Providing the Client on the completion of the New Works with six complete sets of record drawings and manuals of instructions as are necessary for operation and maintenance.

(2) The duties to be performed by the Consultant in respect of the Remodelling Works are:-

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents for securing the formal approval by the appropriate Government Department or other authority to the construction of the Remodelling Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the Remodelling Works.

(b) Advice to the Client as to the necessity for additional field survey or other special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

To provide direction and technical guidance for the subsequent detailed design and preparation of drawings, tender documents and estimates.

(C) CONSTRUCTION STAGE:-

To provide direction and Technical guidance for the construction of the Remodelling Works.

III. STAFFING:

The Consultant shall use such qualified and experienced staff as is necessary for the proper carrying out of all the above mentioned

duties in respect of the New Works and the Remodelling Works.

IV. REMUNERATION OF THE CONSULTANT:-

(1) The remuneration of the Consultant for the performance of the necessary services under Clause II(i) (A) (B) and (C) of this Agreement shall be a fee of 2.7 % (two and seven-tenths per cent) of the actual cost of the New Works, subject to the condition that the minimum fee payable to the Consultant shall be £260,000. Payments shall be made in instalments as set out in Appendix (1).

After the first two payments have been made the subsequent instalments shall be calculated on the cost of accepted tenders or, if no such tenders have been received, on the best estimate of the New Works at the time payments become due. Such payments or intermediate payments shall rank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the New Works, as defined in Clause VII (1).

The breakdown of the total remuneration for the different stages of the New Works as indicated below shall apply in the event of the postponement, cancellation or abandonment of the New Works as provided for in Clause X:

1) 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (A) have been completed.

2) A further 30 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (a) and (b) have been completed.

3) A further 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (c) have been completed.

4) The remaining 30 per cent of the said fee in proportion to the cost of the New Works carried out.

(2) The remuneration of the Consultant for the performance of the necessary services under Clause II(2) (A), (B) and (C) of this Agreement shall be a fee of 1.5% (one and one half per cent) of the estimated cost of the Remodelling Works subject to the condition that the minimum fee payable to the Consultant shall be £60,000. The estimated cost shall be calculated as defined in Clause VII (2) and payments shall be made in instalments as set out in Appendix (2).

(3) ADDITIONAL EXPENSES:

In addition to the remuneration to be paid under this Agreement, the Consultant shall be reimbursed by the Client all additional expenses actually and properly incurred in connection with the New Works and the Remodelling Works in respect of:

(a) Fees for legal advice taken or sought on behalf of the Client.

(b) Field surveys, site and ground explorations, laboratory and pilot plant tests, and any special investigations undertaken by arrangement with the Client, to the extent that any or all of these works are not carried out by the Client at his own expense.

(c) Inclusive salaries of the resident site staff provided or appointed to supervise construction of the New Works and Remodelling Works in accordance with the scales set out in Appendix (3) of this Agreement.

(d) The establishment and maintenance of site offices as may be required in so far as these are not provided by the Client or under any of the Client's civil contracts.

(e) The Client ordering modifications to completed designs or alterations to designs in progress, or requiring alterations to or the re-making of any specifications, drawings or other documents prepared in whole or in part by the Consultant, in which case the whole of the cost of revising, amending or reproducing documents to bring the work to the stage at which it was modified shall be the subject of additional payment computed on an agreed basis together with any out-of-pocket expenses incurred.

V METHOD OF PAYMENT:

(a) All sums due to the Consultant under Clause IV(1),(2) and (3) (a) (b) and (c) of this Agreement shall be paid in Pounds

Sterling to the Consultant's account with the Westminister Bank, ltd. 62 Victoria street, London, S.W.1 within 40 days of the submission of the account.

(b) The advance payment due to the Consultant under Clause IV (3) (c) of this Agreement and referred to in Appendix (3) shall be paid 50 per cent in Pounds Sterling to the Consultant's Bank in London and 50 per cent in Rupees to the Consultant's Bank(to be nominated) in India both within 40 days of the submission of the account.

(c) The monthly payments due to the Consultant under Clause IV(3) (c) of this Agreement shall be paid in the proportion laid down in Appendix (3) - the Pound Sterling element to the Consultant's Bank in London and the Rupee element to the Consultant's Bank in India. Monthly payments shall be made within 30 days of submission by the Consultant's senior representative in India of a statement of the members of the supervisory site staff present and amounts due.

(d) Interest at the rate of 5 per cent per annum (Calculated daily) shall be added to all payments due to the Consultant but not paid within the periods given in Clause V (a) (b) (c).

(e) All sums due to the Consultant in Sterling shall be calculated useing a fixed rate of exchange of 13⅓ (Thirteen and one third) Rupees to the Pound Sterling.

VI. ADDITIONAL DUTIES:-

Should the Client require the Consultant to undertake additional duties such as advising or assisting in connection with:

(a) The valuation, purchase, sale or leasing of lands or the obtaining of wayleaves

(b) Arbitration or other legal proceedings

then the Consultant shall undertake such duties

on terms and conditions to be agreed between the parties.

VII(1) COST OF NEW WORKS:

(A) For the purpose of ascertaining the remuneration to be paid under Clause IV(1) hereof the cost of the New Works or any part thereof shall be deemed to include:-

(a) the amount certified to Contractors, or the amount certified as the cost of the New Works if carried out by direct labour, of New Works designed, specified or supervised by the Consultant before deduction of liquidated damages or penalties if any.

(b) The market value of any manufactured goods, machinery and second-hand materials incorporated in the New Works.

(B) The cost of the New Works shall not include the following items:

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the New Works.

(e) Cost of lands and wayleaves, office buildings, colonies for housing, roads and communications, services and other miscellaneous items which do not form an integral part of the New Works.

(f) Import duty, customs duty, etc., on imported plant and materials.

(2) ESTIMATED COST OF REMODELLING WORKS:

The estimated cost shall be as worked out on the basis of the designs and estimates as finally approved and shall be inclusive of all foreseen costs to the Client in carrying out the Remodelling Works, from whatever cause arising, except that the following items shall be excluded from the estimate:-

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses or resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the Remodelling Works.

(e) Cost of lands and wayleaves, office buildings, colonies for housing, roads and communications, services and other miscellaneous items which do not form an integral part of the Remodelling Works.

(f) Import duty, customs duty, etc., on imported plant and materials.

VIII. SUPERVISION ON SITE:

The Consultant shall appoint on terms and conditions, subject to the approval of the Client which shall not be unreasonably withheld, the following staff:-

1) One Chief Resident Engineer

2) Four Resident Engineers

for such purposes and for such durations as are considered necessary by the Consultant for the New Works and the Remodelling Works for the discharge of his duties under Clauses II(1) c and II(2) c.

The Client will recommend local suitably qualified Engineers such as Executive and or Assistant Engineers, Junior Engineers and Supervisors and subject to the approval of the Consultant which shall not be unreasonably withheld, such Engineers will be employed as part of the supervisory staff.

The staff shall take instructions from the Consultant only.

IX. ACCESS TO THE NEW WORKS:

The Client or his nominees shall have access to the New Works at all stages and shall also be given facilities to discuss with the Chief Resident Engineer matter conneted with the New Works.

X. POSTPONEMENT, CANCELLATION OR ABANDONMENT OF THE NEW WORKS:

In the event of the whole or any part of the New Works being postponed, cancelled or abandoned, then the payment to be made to the Consultant for services performed in respect of the part of the New Works so postponed, cancelled or abandoned shall be determined in accordance with Clause IV(1) and such other Clauses of this Agreement

as may be applicable thereto(with such appropriate adjustments as may be necessary having regard to the services performed prior to the works being so postponed, cancelled or abandoned) payment under this Clause shall be calculated on the best estimate of the value of the relevant part of the New Works having regard to the services performed prior to its postponement, cancellation or abandonment. If, at a later date, the New Works which have been postponed, cancelled or abandoned, or any part thereof, are again proceeded with, any payment made under this Clause shall rank solely as a payment on account towards the total fee ultimately payable on such Works and calculated on their actual cost. If the whole of any part of the New Works is postponed and additional services by the Consultant are necessary in connection with the resumption of such Works, a fee additional to the amount payable under Clause IV and other Clauses hereof shall be due, the fee being on an agreed basis.

XI. DAMAGE OR DESTRUCTION OF THE NEW WORKS:

If at any time before the completion of the New Works any part of the New Works or the equipment thereof shall be damaged or destroyed by operations of war or other causes, the Client shall pay to the Consultant the appropriate fee for any additional works which may be required to be designed and supervised by them as a result of such damage or destruction.

XII. CARE AND DELIGENCE:

The Consultant shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by him and in so far as any of his duties is discretionary shall act fairly as between the Client and the Contractor or Contractors. The Consultant shall have authority to make minor alterations to design involving minor variations to cost as may be necessary or expedient, but he shall obtain prior approval of the Client to any substantial modification variation, omission or addition to any Contract.

XIII. INFORMATION TO BE SUPPLIED TO CONSULTANT:

The Client shall furnish all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consultant of the duties under this Agreement and the Consultant and the Client shall use all reasonable expedition and despatch in carrying out the provisions of this Agreement.

XIV. OWNERSHIP OF DOCUMENTS AND COPYRIGHT:

All documents prepared by the Consultant in connection with the New Works are the property and copyright of the Consultant, and the Client shall not be entitled, either directly or indirectly, to make use of such documents for the carrying out of any work beyond the New Works to which this Agreement relates, without the prior approval of the Consultant.

XV. PUBLICITY RELATING TO THE NEW WORKS:

In cases where notice or display boards are erected on the site, the Consultant shall have the right, if he so elects, to have his name, designation and address inscribed on such boards, and to have his name and designation included when commemorative tables or stones are provided in the finished structure. The Consultant shall also have the right, subject to the Client's approval, to publish descriptive articles, with or without illustrations, relevant to the New Works, either on his own account or in conjunction with other parties concerned.

XVI. NON-ASSIGNMENT:-

The Consultant shall not have the right to assign or transfer the benefit and obligations of this greement or any part thereof but it shall be lawful for the Consultant at any time to take into ownership another Partner or Partners and he or they shall then be deemed to be included in the expression "The Consultant", where the context so allows or permits.

XVII. ARBITRATION:

Any dispute or difficulty arising out of this Agreement shall be finally settled under the Rules of Conciliation and Arbitration

of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

APPENDIX (1)

Payments under Clause IV(1)

A first payment of £13,000 shall be made 3 months after the signing of this agreement. The second payment amounting to £26,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-twentieth of the current estimated total fee for the New Works subject to such additions as may be necessary to bring the fees paid in respect of any completed New Works to 2 7/10 per cent of the actual cost thereof.

APPENDIX (2)

PAYMENTS UNDER CLAUSE IV(2)

A first payment of £7,500 shall be made 3 months after the signing of this Agreement. The second payment amounting to £15,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-eigth of the current estimated total fee for the Remodelling Works.

An amount of 10% of the estimated total fee shall be retained, subject to a maximum amount of £6,000, and this amount shall be paid when the Consultant has discharged his duties under Clauses II(2) C.

APPENDIX(3)

(a) PAYMENTS UNDER CLAUSE IV(3)(c)

Category	Description	Minimum Experience	Total Monthly charge Rupees plus Pounds Sterling	Payable in Rupees	Payable in Pounds
		in years	in Rs.	in Rs.	in Rs.
	Expatriate Staff				
E.1	Chief Resident Engineer and/or Representative	15	8,500	6,000	2,500
E.2	Resident Engineer	7	6,500	4,500	2,000
	Locally Engaged Staff.				
L.1	Executive Engineers		The Mysore Government's scales of pay applicable to the different categories of staff, together with the deputation and other allowances as may be decided upon in consultation with the Client		
L.2	Assistant Engineers				
L.3	Junior Engineers				
L.4.	Supervisors				
L.5.	Chief Clerk				
L.6.	Clerks				
L.7.	Drivers				
L.8.	Laboratory Assistants				
L.9.	Survey Assistants				
L.10.	Office Boys & Cleaners				

(b) The above monthly charges are inclusive and, in the case of expatriate staff, are payable to the Consultant from the date of arrival in India to the date of departure from India upon completion of duties. Periods of less than a month shall be charged pro rata. No deductions shall be made for absence from site on duty or on leave in India or for national or religious holidays.

(c) Staff who have to leave the site due to sickness, leave or unsuitability will be replaced by the Consultant at the appropriate rate of charging.

PAYMENTS:

(a) An advance payment of 60,000 rupees, payable 50% in pounds sterling and 50% in rupees, shall be made upon the arrival of the first member of the Consultant's expatriate resident site staff in India and this will be offset against the Consultant's account in twelve equal instalments commencing twelve months after the date of the advance payment.

(b) Payments shall be made monthly upon submission of the Consultant's account.

BANGALORE INTEGRATED WATER SUPPLY AND SANITATION SCHEME

MEMORANDUM OF AGREEMENT.

This Agreement made the.....day of..... in the year one thousand nine hundred and sixty between the Bangalore Water Supply and Sewerage Board, its assigns and successors at Law (hereinafter called the Client) of the one part and Binnie and Partners practising as Consulting Engineers at Artillery House, Artillery Row, London, S.W.1. (hereinafter referred to as the Consultant) of the other part.

WHEREAS the Client intends to proceed with the following works, viz.,

(i) Construction of syphon across Handihalla, gravity main, water treatment plant, reservoirs at treatment works, treatment plant buildings, pumping stations, reservoirs at the pumping stations, and pipelines from the treatment works to the terminal reservoirs within the Metropolitan area of Bangalore, to provide an additional water supply of 60 (sixty) million gallons per day from the River Cauvery

(ii) Construction of two sewage treatment works

(i) and (ii) above are hereinafter called the New Works

(iii) Remodelling and extending the existing water supply distribution system

(iv) Remodelling and extending the existing sewerage system

(iii) and (iv) above are hereinafter called the Remodelling Works, the extent and scope being generally as indicated on the drawings and documents already prepared by the Client.

and has requested the Consultant to undertake and perform the duties hereinafter mentioned which the Consultant has agreed to do upon and subject to the terms and conditions hereinafter set forth.

NOW THIS AGREEMENT WITNESSETH and it is hereby agreed and declared by and between the parties hereto as follows:

I. APPOINTMENT OF CONSULTANT:-

The Client hereby appoints the Consultant and the Consultant accepts the appointment on the terms and conditions hereinafter set forth.

II. DUTIES OF THE CONSULTANT:-

(1) The duties to be performed by the Consultant in respect of New Works are:

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents necessary for seeking the formal approval of the appropriate Government Department or other authority to the construction of the New Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the New Works.

(b) Advice to the Client as to the necessity for additional field surveys and for special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

(a) Obtaining advice on the architectural treatment of the New Works or on other specialist matters as necessary.

(b) The making of designs, drawings, specifications and preparing schedules or bills of quantities, copies of all of which shall be made available to the Client.

(c) The making or adapting of international or other conditions of contract, forms of tender and invitations to tender and submitting the same

the same for the approval and decision of the Client.

(C) CONSTRUCTION STAGE:-

(a) Advising the Client as to tenders, tenderers, prices and estimates for the carrying out of the New Works provided that no tender shall be accepted or order placed by the Consultant except on behalf of the Client and with his authority in writing.

(b) The supervision of and other services in connection with the carrying out of the New Works including as may be necessary in the particular case:-

(i) Advising as to the preparation of the contract for accepted tenders.

(ii) Preparing any further plans, designs and drawings necessary for the carrying out of the New Works.

(iii) Examining and approving Contractors' details.

(iv) Arranging for the inspection and testing during manufacture of machinery and pressure pipes.

(v) Issuing instructions to Contractors and supervising the execution of the New Works including such site visits by the partners and senior staff as the Consultant considers to be necessary.

(vi) Issuing all certificates for payments to Contractors.

(vii) Supervising acceptance tests on site.

(viii) Assisting in settling disputes or differences that may arise between the Client and Contractors excepting litigation and arbitration.

(ix) Submission of regular monthly reports on the scheduled and actual progress of the New Works.

(x) Providing the Client on the completion of the New Works with six complete sets of record drawings and manuals of instructions as are necessary for operation and maintenance.

(2) The duties to be performed by the Consultant in respect of the Remodelling Works are:-

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents for securing the formal approval by the appropriate Government Department or other authority to the construction of the Remodelling Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the Remodelling Works.

(b) Advice to the Client as to the necessity for additional field survey or other special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

To provide direction and technical guidance for the subsequent detailed design and preparation of drawings, tender documents and estimates.

(C) CONSTRUCTION STAGE:-

To provide direction and Technical guidance for the construction of the Remodelling Works.

III. STAFFING:

The Consultant shall use such qualified and experienced staff as is necessary for the proper carrying out of all the above mentioned

duties in respect of the New Works and the Remodelling Works.

IV. REMUNERATION OF THE CONSULTANT:-

(1) The remuneration of the Consultant for the performance of the necessary services under Clause II(i) (A) (B) and (C) of this Agreement shall be a fee of 2.7 % (two and seven-tenths per cent) of the actual cost of the New Works, subject to the condition that the minimum fee payable to the Consultant shall be £260,000. Payments shall be made in instalments as set out in Appendix (1).

After the first two payments have been made the subsequent instalments shall be calculated on the cost of accepted tenders or, if no such tenders have been received, on the best estimate of the New Works at the time payments become due. Such payments or intermediate payments shall rank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the New Works, as defined in Clause VII (1).

The breakdown of the total remuneration for the different stages of the New Works as indicated below shall apply in the event of the postponement, cancellation or abandonment of the New Works as provided for in Clause X:

1) 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (A) have been completed.

2) A further 30 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (a) and (b) have been completed.

3) A further 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (c) have been completed.

4) The remaining 30 per cent of the said fee in proportion to the cost of the New Works carried out.

(2) The remuneration of the Consultant for the performance of the necessary services under Clause II(2) (A), (B) and (C) of this Agreement shall be a fee of 1.5% (one and one half per cent) of the estimated cost of the Remodelling Works subject to the condition that the minimum fee payable to the Consultant shall be £60,000. The estimated cost shall be calculated as defined in Clause VII (2) and payments shall be made in instalments as set out in Appendix (2).

(3) ADDITIONAL EXPENSES:

In addition to the remuneration to be paid under this Agreement, the Consultant shall be reimbursed by the Client all additional expenses actually and properly incurred in connection with the New Works and the Remodelling Works in respect of:

(a) Fees for legal advice taken or sought on behalf of the Client.

(b) Field surveys, site and ground explorations, laboratory and pilot plant tests, and any special investigations undertaken by arrangement with the Client, to the extent that any or all of these works are not carried out by the Client at his own expense.

(c) Inclusive salaries of the resident site staff provided or appointed to supervise construction of the New Works and Remodelling Works in accordance with the scales set out in Appendix (3) of this Agreement.

(d) The establishment and maintenance of site offices as may be required in so far as these are not provided by the Client or under any of the Client's civil contracts.

(e) The Client ordering modifications to completed designs or alterations to designs in progress, or requiring alterations to or the re-making of any specifications, drawings or other documents prepared in whole or in part by the Consultant, in which case the whole of the cost of revising, amending or reproducing documents to bring the work to the stage at which it was modified shall be the subject of additional payment computed on an agreed basis together with any out-of-pocket expenses incurred.

V METHOD OF PAYMENT:

(a) All sums due to the Consultant under Clause IV(1),(2) and (3) (a) (b) and (c) of this Agreement shall be paid in Pounds

Sterling to the Consultant's account with the Westministe Bank, ltd. 62 Victoria street, London, S.W.1 within 40 da of the submission of the account.

(b) The advance payments due to the Consultant under Clause IV (3) (c) of this Agreement and referred to in Appendix (3) shall be paid 50 per cent in Pounds Sterling to the Consultant's Bank in London and 50 per cent in Rupees to the Consultant's Bank(to be nominated) in India both within 40 days of the submission of the account.

(c) The monthly payments due to the Consultant under Clause IV(3) (c) of this Agreement shall be paid in the proportion laid down in Appendix (3) - the Pound Sterling element to the Consultant's Bank in London and the Rupee element to the Consultant's Bank in India. Monthly payments shall be made within 30 days of submission by the Consultant's senior representative in India of a statement of the members of the supervisory site staff present and amounts due.

(d) Interest at the rate of 5 per cent per annum (Calculated daily) shall be added to all payments due to the Consultant but not paid within the periods given in Clause V (a) (b) (c).

(e) All sums due to the Consultant in Sterling shall be calculated useing a fixed rate of exchange of 13⅓ (Thirteen and one third) Rupees to the Pound Sterling.

VI. ADDITIONAL DUTIES:-

Should the Client require the Consultant to undertake additional duties such as advising or assisting in connection with:

(a) The valuation, purchase, sale or leasing of lands or the obtaining of wayleaves

(b) Arbitration or other legal proceedings

then the Consultant shall undertake such duties

on terms and conditions to be agreed between the parties.

VII(1) COST OF NEW WORKS:

(A) For the purpose of ascertaining the remuneration to be paid under Clause IV(1) hereof the cost of the New Works or any part thereof shall be deemed to include:-

(a) the amount certified to Contractors, or the amount certified as the cost of the New Works if carried out by direct labour, of New Works designed, specified or supervised by the Consultant before deduction of liquidated damages or penalties if any.

(b) The market value of any manufactured goods, machinery and second-hand materials incorporated in the New Works.

(B) The cost of the New Works shall not include the following items:

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the New Works.

(e) Cost of lands and wayleaves, office buildings, colonies for housing, roads and communications, services and other miscellaneous items which do not form an [illegible] part of the New Works.

(f) Import duty, customs duty, etc., on imported plant and materials.

(2) ESTIMATED COST OF REMODELLING WORKS:

The estimated cost shall be as worked out on the basis of the designs and estimates as finally approved and shall be inclusive of all foreseen costs to the Client in carrying out the Remodelling Works, from whatever cause arising, except that the following items shall be excluded from the estimate:-

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses or resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the Remodelling Works.

(e) Cost of lands and wayleaves, office buildings, colonies for housing, roads and communications, services and other miscellaneous items which do not form an integral part of the Remodelling Works.

(f) Import duty, customs duty, etc., on imported plant and materials.

VIII. SUPERVISION ON SITE:

The Consultant shall appoint on terms and conditions, subject to the approval of the Client which shall not be unreasonably withheld, the following staff:-

1) One Chief Resident Engineer

2) Four Resident Engineers

for such purposes and for such durations as are considered necessary by the Consultant for the New Works and the Remodelling Works for the discharge of his duties under Clauses II(1) c and II(2) c.

The Client will recommend local suitably qualified Engineers such as Executive and or Assistant Engineers, Junior Engineers and Supervisors and subject to the approval of the Consultant which shall not be unreasonably withheld, such Engineers will be employed as part of the supervisory staff.

The staff shall take instructions from the Consultant only.

IX. ACCESS TO THE NEW WORKS:

The Client or his nominees shall have access to the New Works at all stages and shall also be given facilities to discuss with the Chief Resident Engineer matter conneted with the New Works.

X. POSTPONEMENT, CANCELLATION OR ABANDONMENT OF THE NEW WORKS:

In the event of the whole or any part of the New Works being postponed, cancelled or abandoned, then the payment to be made to the Consultant for services performed in respect of the part of the New Works so postponed, cancelled or abandoned shall be determined in accordance with Clause IV(1) and such other Clauses of this Agreement

as may be applicable thereto(with such appropriate adjustments as may be necessary having regard to the services performed prior to the works being so postponed, cancelled or abandoned) payment under this Clause shall be calculated on the best estimate of the value of the relevant part of the New Works having regard to the services performed prior to its postponement, cancellation or abandonment. If, at a later date, the New Works which have been postponed, cancelled or abandoned, or any part thereof, are again proceeded with, any payment made under this Clause shall rank solely as a payment on account towards the total fee ultimately payable on such Works and calculated on their actual cost. If the whole of any part of the New Works is postponed and additional services by the Consultant are necessary in connection with the resumption of such Works, a fee additional to the amount payable under Clause IV and other Clauses hereof shall be due, the fee being on an agreed basis.

XI. DAMAGE OR DESTRUCTION OF THE NEW WORKS:

If at any time before the completion of the New Works any part of the New Works or the equipment thereof shall be damaged or destroyed by operations of war or other causes, the Client shall pay to the Consultant the appropriate fee for any additional works which may be required to be designed and supervised by them as a result of such damage or destruction.

XII. CARE AND DELIGENCE:

The Consultant shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by him and in so far as any of his duties is discretionary shall act fairly as between the Client and the Contractor or Contractors. The Consultant shall have authority to make minor alterations to design involving minor variations to cost as may be necessary or expedient, but he shall obtain prior approval of the Client to any substantial modification variation, omission or addition to any Contract.

XIII. INFORMATION TO BE SUPPLIED TO CONSULTANT:

The Client shall furnish all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consultant of the duties under this Agreement and the Consultant and the Client shall use all reasonable expedition and despatch in carrying out the provisions of this Agreement.

XIV. OWNERSHIP OF DOCUMENTS AND COPYRIGHT:

All documents prepared by the Consultant in connection with the New Works are the property and copyright of the Consultant, and the Client shall not be entitled, either directly or indirectly, to make use of such documents for the carrying out of any work beyond the New Works to which this Agreement relates, without the prior approval of the Consultant.

XV. PUBLICITY RELATING TO THE NEW WORKS:

In cases where notice or display boards are erected on the site, the Consultant shall have the right, if he so elects, to have his name, designation and address inscribed on such boards, and to have his name and designation included when commemorative tables or stones are provided in the finished structure. The Consultant shall also have the right, subject to the Client's approval, to publish descriptive articles, with or without illustrations, relevant to the New Works, either on his own account or in conjunction with other parties concerned.

XVI. NON-ASSIGNMENT:-

The Consultant shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof but it shall be lawful for the Consultant at any time to take into partnership another Partner or Partners and he or they shall then be deemed to be included in the expression "The Consultant", where the context so allows or permits.

XVII. ARBITRATION:

Any dispute or difficulty arising out of this Agreement shall be finally settled under the Rules of Conciliation and Arbitration

of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

APPENDIX(1)

Payments under Clause IV(1)

A first payment of £13,000 shall be made 3 months after the signing of this Agreement. The second payment amounting to £26,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-twentieth of the current estimated total fee for the New Works subject to such additions as may be necessary to bring the fees paid in respect of any completed New Works to 2 7/10 per cent of the actual cost thereof

APPENDIX (2)

PAYMENTS UNDER CLAUSE IV(2)

A first payment of £7,500 shall be made 3 months after the signing of this Agreement. The second payment amounting to £15,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-eigth of the current estimated total fee for the Remodelling Works.

An amount of 10% of the estimated total fee shall be retained, subject to a maximum amount of £6,000, and this amount shall be paid when the Consultant has discharged his duties under Clauses II(2) C.

APPENDIX(3)

(a) PAYMENTS UNDER CLAUSE IV(3)(c)

Category	Description	Minimum Experience	Total Monthly charge Rupees plus Pounds Sterling	Payable in Rupees	Payable in Pounds
		in years	in Rs.	in Rs.	in Rs.
	Expatriate Staff				
E.1	Chief Resident Engineer and/or Representative	15	8,500	6,000	2,500
E.2	Resident Engineer	7	6,500	4,500	2,000
	Locally Engaged Staff.				
L.1	Executive Engineers		The Mysore Government's scales of pay applicable to the different categories of staff, together with the deputation and other allowances as may be decided upon in consultation with the Client		
L.2	Assistant Engineers				
L.3	Junior Engineers				
L.4.	Supervisors				
L.5.	Chief Clerk				
L.6.	Clerks				
L.7.	Drivers				
L.8.	Laboratory Assistants				
L.9.	Survey Assistants				
L.10.	Office Boys & Cleaners				

(b) The above monthly charges are inclusive and, in the case of expatriate staff, are payable to the Consultant from the date of arrival in India to the date of departure from India upon completion of duties. Periods of less than a month shall be charged pro rata. No deductions shall be made for absence from site on duty or on leave in India or for national or religious holidays.

(c) Staff who have to leave the site due to sickness, leave or unsuitability will be replaced by the Consultant at the appropriate rate of charging.

PAYMENTS:

(a) An advance payment of 60,000 rupees, payable 50% in pounds sterling and 50% in rupees, shall be made upon the arrival of the first member of the Consultant's expatriate resident site staff in India and this will be offset against the Consultant's account in twelve equal instalments commencing twelve months after the date of the advance payment.

(b) Payments shall be made monthly upon submission of the Consultant's account.

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Draft

No.PWS(PA) 278/64 DT. 14.12.64.

Dear Shri Venkataraman,

Sub: Consultancy arrangements for the Bangalore Water Supply and Sewerage Project.

I am writing this in continuation of D.O. letter No.PWS(PA) 278/64, dated 8th December 1964 on the above subject.

I am glad to inform you that the State Government have decided to recommend approval of the terms offered by Messrs Binny and Partners.

The draft agreement forwarded by the Chief Engineer(General) Government of Mysore has been referred to the Law Department of the State Government and the same will be forwarded to you immediately after their scrutiny.

Yours sincerely,

(M.Channappa)
Dy.Secy.,PWD.

ISSUED
Dated.....

Shri M.K.Venkataraman,
Under Secretary to the Govt. of India,
Department of Economic Affairs,
Ministry of Finance,
NEW DELHI.

Copy of the above is forwarded to Shri K.Narayanaswamy, I.A.S., Chairman, Bangalore Water Supply and Sewerage Board, M.G.I.D.Bulg., (Annexe), Bangalore-1, for information.

Dy.Secy.,PWD.

BINNIE AND PARTNERS.

Artillery House,
Artillery Row,
Westminister,
London S.W. 1.

PJN/G-31

December 7, 1964.

MYSORE GOVT. SECRET. No 1975 9 DEC 1964 SECRET & ISSUE SECTION

SECRETARY TO GOVERNMENT No T 2028 DEC 1964 PUBLIC WORKS & ELEC. DEPT.

Shri Chandappa Patel, IAS.,
Secretary to the Government of Mysore,
Public Works and Electricity Department,
Vidhana Soudha,
Bangalore.

Sir,

Sub: Integrated Water Supply and Sanitation Scheme to Bangalore City - Appointment of Consultants.
-- f --
Ref: Your No.PWD 141 GTW 62 dated 18/19th November 1964.
---ooo---

We thank you for your letter referred to above, in response to which the undersigned arrived in Bangalore on 1st December and held discussions with (1) Shri S.G.Balekundry, Chief Engineer, (General), (2) Shri S.Rajagopalan, Deputy Director General of Health Services (Public Health Engineering), Government of India, New Delhi, (3) Shri M.Narasimhaiah, Retd. Chief Engineer and Member of the Bangalore Water Supply and Sewerage Board and (4) Shri K.Narayana Swamy, Chairman, Water Supply and Sewerage Board, Bangalore on the 2nd, 3rd and 6th of December 1964.

Preliminary proposals in the form of a Draft Agreement embodying the terms and conditions which my firm considered should apply if ~~approved~~ appointed to undertake

Cont'd.

the work were discussed in detail with these Officers. As a result of further clarification of the work and duties involved arising from these mutually helpful and agreeable consultations, a modified Draft Agreement containing the final terms and conditions upon which we would be prepared to undertake the consultancy services for the New Works, as well as the Remodelling Works, is appended hereto.

We believe we have covered all the relevant issues to be dealt with in the Agreement to be drawn up for this work, and now look forward to receiving your further instructions in the matter.

Yours faithfully,

(P.J. NORRIS)
For and on behalf of Binnie & Partners.

BANGALORE INTEGRATED WATER SUPPLY AND SANITATION SCHEME

MEMORANDUM OF AGREEMENT.

This Agreement made the.....day of..... in the year one thousand nine hundred and sixty between the Bangalore Water Supply and Sewerage Board, its assigns and successors at Law (hereinafter called the Client) of the one part and Binnie and Partners practising as Consulting Engineers at Artillery House, Artillery Row, London, S.W.1. (hereinafter referred to as the Consultant) of the other part.

WHEREAS the Client intends to proceed with the following works, viz.,

(i) Construction of syphon across Handihalla, gravity main, water treatment plant, reservoirs at treatment works, treatment plant buildings, pumping stations, reservoirs at the pumping stations, and pipelines from the treatment works to the terminal reservoirs within the Metropolitan area of Bangalore, to provide an additional water supply of 60(sixty) million gallons per day from the River Cauvery

(ii) Construction of two sewage treatment works

(i) and (ii) above are hereinafter called the New Works

(iii) Remodelling and extending the existing water supply distribution system

(iv) Remodelling and extending the existing sewerage system

(iii) and (iv) above are hereinafter called the Remodelling Works, the extent and scope being generally as indicated on the drawings and documents already prepared by the Client.

and has requested the Consultant to undertake and perform the duties hereinafter mentioned which the Consultant has agreed to do upon and subject to the terms and conditions hereinafter set forth.

NOW THIS AGREEMENT WITNESSETH and it is hereby agreed and declared by and between the parties hereto as follows:

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(a) Investigation of available data or information relating to the New Works.

(b) Advice to the Client as to the necessity for additional field surveys and for special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

(a) Obtaining advice on the architectural treatment of the New Works or on other specialist matters as necessary.

(b) The making of designs, drawings, specifications and preparing schedules or bills of quantities, copies of all of which shall be made available to the Client.

(c) The making or adapting of international or other conditions of contract, forms of tender and invitations to tender and submitting the same

the same for the approval and decision of the Client.

(C) CONSTRUCTION STAGE:-

(a) Advising the Client as to tenders, tenderers, prices and estimates for the carrying out of the New Works provided that no tender shall be accepted or order placed by the Consultant except on behalf of the Client and with his authority in writing.

(b) The supervision of and other services in connection with the carrying out of the New Works including as may be necessary in the particular case:-

(i) Advising as to the preparation of the contract for accepted tenders.

(ii) Preparing any further plans, designs and drawings necessary for the carrying out of the New Works.

(iii) Examining and approving Contractors' details.

(iv) Arranging for the inspection and testing during manufacture of machinery and pressure pipes.

(v) Issuing instructions to Contractors and supervising the execution of the New Works including such site visits by the partners and senior staff as the Consultant considers to be necessary.

(vi) Issuing all certificates for payments to Contractors.

(vii) Supervising acceptance tests on site.

(viii) Assisting in settling disputes or differences that may arise between the Client and Contractors excepting litigation and arbitration.

(ix) Submission of regular monthly reports on the scheduled and actual progress of the New Works.

(x) Providing the Client on the completion of the New Works with six complete sets of record drawings and manuals of instructions as are necessary for operation and maintenance.

(2) The duties to be performed by the Consultant in respect of the Remodelling Works are:-

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents for securing the formal approval by the appropriate Government Department or other authority to the construction of the Remodelling Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the Remodelling Works.

(b) Advice to the Client as to the necessity for additional field survey or other special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

To provide direction and technical guidance for the subsequent detailed design and preparation of drawings, tender documents and estimates.

(C) CONSTRUCTION STAGE:-

To provide direction and Technical guidance for the construction of the Remodelling Works.

III. STAFFING:

The Consultant shall use such qualified and experienced staff as is necessary for the proper carrying out of all the above mentioned

duties in respect of the New Works and the Remodelling Works.

IV. REMUNERATION OF THE CONSULTANT:-

(1) The remuneration of the Consultant for the performance of the necessary services under Clause II(i) (A) (B) and (C) of this Agreement shall be a fee of 2.7 % (two and seven-tenths per cent) of the actual cost of the New Works, subject to the condition that the minimum fee payable to the Consultant shall be £260,000. Payments shall be made in instalments as set out in Appendix (1).

After the first two payments have been made the subsequent instalments shall be calculated on the cost of accepted tenders or, if no such tenders have been received, on the best estimate of the New Works at the time payments become due. Such payments or intermediate payments shall rank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the New Works, as defined in Clause VII (1).

The breakdown of the total remuneration for the different stages of the New Works as indicated below shall apply in the event of the postponement, cancellation or abandonment of the New Works as provided for in Clause X:

1) 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (A) have been completed.

2) A further 30 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (a) and (b) have been completed.

3) A further 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (c have been completed.

4) The remaining 30 per cent of the said fee in proportion to the cost of the New Works carried out.

(2) The remuneration of the Consultant for the performance of the necessary services under Clause II(2) (A), (B) and (C) of this Agreement shall be a fee of 1.5% (one and one half per cent) of the estimated cost of the Remodelling Works subject to the condition that the minimum fee payable to the Consultant shall be £60,000. The estimated cost shall be calculated as defined in Clause VII (2) and payments shall be made in instalments as set out in Appendix (2).

(3) ADDITIONAL EXPENSES:

In addition to the remuneration to be paid under this Agreement, the Consultant shall be reimbursed by the Client all additional expenses actually and properly incurred in connection with the New Works and the Remodelling Works in respect of:

(a) Fees for legal advice taken or sought on behalf of the Client.

(b) Field surveys, site and ground explorations, laboratory and pilot plant tests, and any special investigations undertaken by arrangement with the Client, to the extent that any or all of these works are not carried out by the Client at his own expense.

(c) Inclusive salaries of the resident site staff provided or appointed to supervise construction of the New Works and Remodelling Works in accordance with the scales set out in Appendix (3) of this Agreement.

(d) The establishment and maintenance of site offices as may be required in so far as these are not provided by the Client or under any of the Client's civil contracts.

(e) The Client ordering modifications to completed designs or alterations to designs in progress, or requiring alterations to or the re-making of any specifications, drawings or other documents prepared in whole or in part by the Consultant, in which case the whole of the cost of revising, amending or reproducing documents to bring the work to the stage at which it was modified shall be the subject of additional payment computed on an agreed basis together with any out-of-pocket expenses incurred.

V METHOD OF PAYMENT:

(a) All sums due to the Consultant under Clause IV(1),(2) and (3) (a) (b) and (e) of this Agreement shall be paid in Pounds

Sterling to the Consultant's account with the Westminister Bank, ltd. 62 Victoria street, London, S.W.1 within 40 days of the submission of the account.

(b) The advance payments due to the Consultant under Clause IV (3) (c) of this Agreement and referred to in Appendix (3) shall be paid 50 per cent in Pounds Sterling to the Consultant's Bank in London and 50 per cent in Rupees to the Consultant's Bank(to be nominated) in India both within 40 days of the submission of the account.

(c) The monthly payments due to the Consultant under Clause IV(3) (c) of this Agreement shall be paid in the proportion laid down in Appendix (3) - the Pound Sterling element to the Consultant's Bank in London and the Rupee element to the Consultant's Bank in India. Monthly payments shall be made within 30 days of submission by the Consultant's senior representative in India of a statement of the members of the supervisory site staff present and amounts due.

(d) Interest at the rate of 5 per cent per annum (Calculated daily) shall be added to all payments due to the Consultant but not paid within the periods given in Clause V (a) (b) (c).

(e) All sums due to the Consultant in Sterling shall be calculated useing a fixed rate of exchange of 13⅓ (Thirteen and one third) Rupees to the Pound Sterling.

VI. ADDITIONAL DUTIES:-

Should the Client require the Consultant to undertake additional duties such as advising or assisting in connection with:

(a) The valuation, purchase, sale or leasing of lands or the obtaining of wayleaves

(b) Arbitration or other legal proceedings

then the Consultant shall undertake such duties

on terms and conditions to be agreed between the parties.

VII(1) COST OF NEW WORKS:

(A) For the purpose of ascertaining the remuneration to be paid under Clause IV(1) hereof the cost of the New Works or any part thereof shall be deemed to include:-

(a) the amount certified to Contractors, or the amount certified as the cost of the New Works if carried out by direct labour, of New Works designed, specified or supervised by the Consultant before deduction of liquidated damages or penalties if any.

(b) The market value of any manufactured goods, machinery and second-hand materials incorporated in the New Works.

(B) The cost of the New Works shall not include the following items:

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the New Works.

(e) Cost of lands and wayleaves, office buildings, colonies for housing, roads and communications, services and other miscellaneous items which do not form an [illegible] part of the New Works.

(f) Import duty, customs duty, etc., on imported plant and materials.

(2) ESTIMATED COST OF REMODELLING WORKS:

The estimated cost shall be as worked out on the basis of the designs and estimates as finally approved and shall be inclusive of all foreseen costs to the Client in carrying out the Remodelling Works, from whatever cause arising, except that the following items shall be excluded from the estimate:-

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the Remodelling Works.

(e) Cost of lands and wayleaves, office buildings, colonies for housing, roads and communications, services and other miscellaneous items which do not form an integral part of the Remodelling Works.

(f) Import duty, customs duty, etc., on imported plant and materials.

VIII. SUPERVISION ON SITE:

The Consultant shall appoint on terms and conditions, subject to the approval of the Client which shall not be unreasonably withheld the following staff:-

1) One Chief Resident Engineer

2) Four Resident Engineers

for such purposes and for such durations as are considered necessary by the Consultant for the New Works and the Remodelling Works for the discharge of his duties under Clauses II(1) c and II(2) c.

The Client will recommend local suitably qualified Engineers such as Executive and or Assistant Engineers, Junior Engineers and Supervisors and subject to the approval of the Consultant which shall not be unreasonably withheld, such Engineers will be employed as part of the supervisory staff.

The staff shall take instructions from the Consultant only.

IX. ACCESS TO THE NEW WORKS:

The Client or his nominees shall have access to the New Works at all stages and shall also be given facilities to discuss with the Chief Resident Engineer matter conneted with the New Works.

X. POSTPONEMENT, CANCELLATION OR ABANDONMENT OF THE NEW WORKS:

In the event of the whole or any part of the New Works being postponed, cancelled or abandoned, then the payment to be made to the Consultant for services performed in respect of the part of the New Works so postponed, cancelled or abandoned shall be determined in accordance with Clause IV(1) and such other Clauses of this Agreement

as may be applicable thereto(with such appropriate adjustments as may be necessary having regard to the services performed prior to the works being so postponed, cancelled or abandoned)~~(payment under this Clause shall be calculated on the best estimate of the value of the relevent part of the New Works having regard to the services performed prior to its postponement, cancellation or abandonment.)~~ If, at a later date, the New Works which have been postponed, cancelled or abandoned, or any part thereof, are again proceeded with, any payment made under this Clause shall rank solely as a payment on account towards the total fee ultimately payable on such Works and calculated on their actual cost. If the whole of any part of the New Works is postponed and additional services by the Consultant are necessary in connection with the resumption of such Works, a fee additional to the amount payable under Clause IV and other Clauses hereof shall be due, the fee being on an agreed basis.

XI. DAMAGE OR DESTRUCTION OF THE NEW WORKS:

If at any time before the completion of the New Works any part of the New Works or the equipment thereof shall be damaged or destroye by operations of war or other causes, the Client shall pay to the Consultant the appropriate fee for any additional works which may be required to be designed and supervised by them as a result of such damage or destruction.

XII. CARE AND DELIGENCE:

The Consultant shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by him and in so far as any of his duties is discretionary shall act fairly as between the Client and the Contractor or Contractors. The Consultant shall have authority to make minor alterations to design involving minor variations to cost as may be necessary or expedient, but he shall obtain prior approval of the Client to any substantial modification variation, omission or addition to any Contract.

XIII. INFORMATION TO BE SUPPLIED TO CONSULTANT:

The Client shall furnish all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consultant of the duties under this Agreement and the Consultant and the Client shall use all reasonable expedition and despatch in carrying out the provisions of this Agreement.

XIV. OWNERSHIP OF DOCUMENTS AND COPYRIGHT:

All documents prepared by the Consultant in connection with the New Works are the property and copyright of the Consultant, and the Client shall not be entitled, either directly or indirectly, to make use of such documents for the carrying out of any work beyond the New Works to which this Agreement relates, without the prior approval of the Consultant.

XV. PUBLICITY RELATING TO THE NEW WORKS:

In cases where notice or display boards are erected on the site, the Consultant shall have the right, if he so elects, to have his name, designation and address inscribed on such boards, and to have his name and designation included when commemorative tables or stones are provided in the finished structure. The Consultant shall also have the right, subject to the Client's approval, to publish descriptive articles, with or without illustrations, relevant to the New Works, either on his own account or in conjunction with other parties concerned.

XVI. NON-ASSIGNMENT:-

The Consultant shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof but it shall be lawful for the Consultant at any time to take into partnership another Partner or Partners and he or they shall then be deemed to be included in the expression "The Consultant", where the context so allows or permits.

XVII. ARBITRATION:

Any dispute or difficulty arising out of this Agreement shall be finally settled under the Rules of Conciliation and Arbitration

of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

In witness whereof the parties mentioned above have signed the agreement on the day and year first above written.

Executed by the client
in the presence of witnesses

1)

2)

Executed by the consultant
in the presence of

witnesses

1)

2)

APPENDIX(1)

Payments under Clause IV(1)

A first payment of £13,000 shall be made 3 months after the signing of this Agreement. The second payment amounting to £26,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-twentieth of the current estimated total fee for the New Works subject to such additions as may be necessary to bring the fees paid in respect of any completed New Works to 2 7/10 per cent of the actual cost thereof.

APPENDIX (2)

PAYMENTS UNDER CLAUSE IV(2)

A first payment of £7,500 shall be made 3 months after the signing of this Agreement. The second payment amounting to £15,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-eigth of the current estimated total fee for the Remodelling Works.

An amount of 10% of the estimated total fee shall be retained, subject to a maximum amount of £6,000, and this amount shall be paid when the Consultant has discharged his duties under Clauses II(2) C.

APPENDIX(3)

PAYMENTS UNDER CLAUSE IV(3)(c)

egory	Description	Minimum Experience	Total Monthly charge Rupees plus Pounds Sterling	Payable in Rupees	Pounds
		in years	in Rs.	in Rs.	in Rs.
	Expatriate Staff				
.	Chief Resident Engineer and/or Representative	15	8,500	6,000	2,500
2	Resident Engineer	7	6,500	4,500	2,000

Locally Engaged Staff.

1 Executive Engineers	X	The Mysore Government's scales of pay applicable to the different categories of staff, together with the deputation and other allowances as may be decided upon in consultation with the Client
2 Assistant Engineers	X	
3 Junior Engineers		
4. Supervisors	X	
5. Chief Clerk	X	
6. Clerks		
7. Drivers	X	
8. Laboratory Assistants	X	
9. Survey Assistants		
10. Office Boys & Cleaners	X	

b) The above monthly charges are inclusive and, in the case of xpatriate staff, are payable to the Consultant from the date of rrival in India to the date of departure from India upon completion f duties. Periods of less than a month shall be charged pro rata. o deductions shall be made for absence from site on duty or on leave n India or for national or religious holidays.

c) Staff who have to leave the site due to sickness, leave or nsuitability will be replaced by the Consultant at the appropriate ate of charging.

APPENDIX(3)

(a) PAYMENTS UNDER CLAUSE IV(3)(c)

Category	Description	Minimum Experience	Total Monthly charge Rupees plus Pounds Sterling	Payable in Rupees	Payable in Pounds
		in years	in Rs.	in Rs.	in Rs.
	Expatriate Staff				
E.1	Chief Resident Engineer and/or Representative	15	8,500	6,000	2,500
E.2	Resident Engineer	7	6,500	4,500	2,000
	Locally Engaged Staff.				
L.1	Executive Engineers		The Mysore Government's scales of pay applicable to the different categories of staff, together with the deputation and other allowances as may be decided upon in consultation with the Client		
L.2	Assistant Engineers				
L.3	Junior Engineers				
L.4.	Supervisors				
L.5.	Chief Clerk				
L.6.	Clerks				
L.7.	Drivers				
L.8.	Laboratory Assistants				
L.9.	Survey Assistants				
L.10.	Office Boys & Cleaners				

(b) The above monthly charges are inclusive and, in the case of expatriate staff, are payable to the Consultant from the date of arrival in India to the date of departure from India upon completion of duties. Periods of less than a month shall be charged pro rata. No deductions shall be made for absence from site on duty or on leave in India or for national or religious holidays.

(c) Staff who have to leave the site due to sickness, leave or unsuitability will be replaced by the Consultant at the appropriate rate of charging.

PAYMENTS:

(a) An advance payment of 60,000 rupees, payable 50% in pounds sterling and 50% in rupees, shall be made upon the arrival of the first member of the Consultant's expatriate resident site staff in India and this will be offset against the Consultant's account in twelve equal instalments commencing twelve months after the date of the advance payment.

(b) Payments shall be made monthly upon submission of the Consultant's account.

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CONNEMARA HOTEL
MADRAS, 2.
TELEGRAMS: "CONNEMARA", MADRAS.
TELEPHONE: 84094.

9th December 1964

Dear Mr. Balchandran,

As Mr. Narayana Swamy explained that you were still carrying on in spite of a token handover, I thought it might help if I let you know that I shall be staying at the Ashoka Hotel in New Delhi until Saturday morning when I leave for UK.

While I am in the country I would naturally like

to finalise things as far as possible and if any problems arise in the next few days a cable to the above hotel will bring me back post haste to Bangalore.

From your own experience of UK weather during your time at Edinburgh, you will appreciate that the only possible reason for wanting to return there so soon at this time of year is build-up of work.

I expect Mr. Mahanthamma who looked after me so well during

CONNEMARA HOTEL,
MADRAS, 2.
TELEGRAMS: "CONNEMARA", MADRAS.
TELEPHONE: 84094.

my visit) has told you that I crossed out the following words from Clause X of the draft agreement before he took it by hand to Mr. Chandappa Patel

" payment under this clause shall be calculated on the best estimate of the value of the relevant part of the New Works having regard to the services performed prior to its postponement, cancellation or abandonment". I merely mention

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MADRAS, 2.
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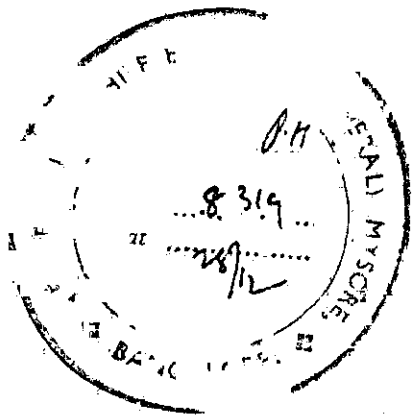
COPY FROM BINNIE & PARTNERS
ARTILLERY HOUSE, ARTILLERY ROW, LONDON, S.W.1.



PWD 141 GTW 62

PJN/382

23rd December, 1964.

Mr. Chandappa Patel, IAS.,
Secretary to the Government of Mysore,
Public Works and Electricity Department,
Vidhana Soudha,
Bangalore.

Dear Sir,

Bangalore Water Supply and Sanitation Schemes

Further to our letter of 7th December enclosing a draft agreement for the above scheme, which Mr. Norris sent to you during his recent visit to Bangalore, we now wish to inform you that the total monthly charges given in Appendix (3) can be reduced slightly.

We have come to this conclusion based upon the information obtained by Mr. Norris on the cost of living and salary scales in India, and after amending the allowances for our related overheads as assessed by our accountant since his return.

The figures for expatriate staff can therefore be amended as follows:

Category	Description	Minimum experience	Total monthly charge in rupees plus pounds sterling	Payable in rupees in India	Payable in pounds sterling in London
E. 1	Chief Resident Engineer and/or Representative	15 yrs.	8,000 Rs	5,500 Rs	2,500 Rs
E. 2	Resident Engineer	7 yrs.	6,250 Rs	4,250 Rs	2,000 Rs

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COPY FROM BINNIE & PARTNERS
ARTILLERY HOUSE, ARTILLERY ROW, LONDON, S.W.1.

Mr. Chandappa Patel, IAS. 23rd December, 1964.

Experience will rank from the date of obtaining a Bachelor's degree or equivalent.

As Mr. Norris explained during the discussions on the draft agreement in Bangalore, there will be no profit element in the monthly charges for site supervisory staff and these will be all inclusive of salary, housing allowance, family allowance, transport allowance, leave pay and travelling expenses etc.

We also enclose a suggested Appendix (4) which we think it would be helpful to include in the agreement, as we have done in other agreements for jobs overseas, to indicate the people who will be dealing with the Bangalore work.

We are sending a copy of this letter to Mr. Balekundry for his information and now await your further instructions.

Yours faithfully,
BINNIE & PARTNERS

c. c. Mr. Balekundry.

LD.

APPENDIX (4)

Names and qualifications of the Consultant's Partners, leads of Departments and Senior Staff who will be concerned with ie New Works and Remodelling Works: -

'artners

Control and Management

R. le G. Hetherington, O. B. E., M. A., M. I. C. E., M. I. W. E., M. Cons. E.

Water Supply and Treatment

R. V. C. Phillips, M. C., M. A., M. I. C. E., M. I. W. E., M. Cons. E.

Sewage Treatment and Sewerage

P. J. Norris, M. I. C. E., M. I. W. E., M. R. S. H., A. M. I. S. P., M. Cons. E.

Hydrologist	M. Mansell Moullin, M. A., D. I. C. (Hydrology)
Geologist	J. Newberry, B. Sc. (Geology), F. G. S.
Soil Mechanics	A. L. Little, B. Sc. (Eng.), M. I. C. E., M. I. Struct. E.
Structures	R. V. C. Loadsman, M. I. Struct. E.
Electrical and Mechanical	J. Wilkinson, A. M. I. E. E., A. M. I. Mech. E., A. M. I. W. E.
Project Engineer (water supply and treatment)	A. G. Gibbs, B. Sc. (Eng.), M. I. C. E., M. I. W. E.
Project Engineer (sewerage and sewage treatment)	D. B. Clement, M. A., A. M. I. C. E., A. M. I. W. E.

Specialist advice will be obtained from: -

Architect	A. A. Montagu, F. R. I. B. A. (Messrs. Gibson, Gordon & Montagu)
Chemist (water treatment)	Dr. R. C. Hoather, B. Sc., Ph. D., F. R. I. C., F. R. S. H. (Counties Public Health Lab.)
Chemist (sewage treatment)	Gordon Miles, B. Sc., F. R. I. C., F. R. S. H. (Counties Public Health Lab.)

141 GTW 62

Dear Shri Venkataraman,

Subject: Consultancy arrangement for the Bangalore Water Supply & Sewerage Project - Your Telegram dated 2-1-65 issued in this connection.

With reference to the above, I forward herewith a copy of the draft agreement duly scrutinised by the Law Department of the State Government. I have already informed you in my letter dated 14-12-64 that the State Government have decided to recommend approval of the said terms and I request you therefore to kindly take urgent action for processing it further to the final stage.

Since there are two minor modifications, we have addressed a letter to Messrs Binnie and Partners, London, intimating them of the circumstances in which their concurrence has been presumed. A copy of the said letter No.PWD 141 GTW 62(i), dated 12-1-1965 addressed to the firm in this connection is enclosed for your information.

A copy of the draft agreement, etc. is also being sent to the Deputy Director General of Public Health Engineering Shri S.Rajagopalan as desired by you.

If it is felt that there should be another discussion amongst ourselves before the agreement is finalised before forwardal to the World Bank authorities, kindly fix a date and let us know.

Yours sincerely,
Sd./-

Shri T.K.Venkataraman,
Under Secretary to the Govt. of India,
Ministry of Finance
(Department of Economic Affairs),
N W DELHI.

Copy, together with a copy of the draft agreement is forwarded to Shri S.Rajagopalan, Deputy Director General of Public Health Engineering, Ministry of Health, Government of India, New Delhi, for information. The question may kindly be processed as urgently as possible.

12/1/65

Deputy Secretary to Government,
Public Works Department.

For further action. The above has been discussed with the Chief Engr (General) & drawn up afterwards.
12/1/65

Chief Engr (Gen)
Sec
Dy Sec (Ad)
12/1/65

O/C · Issued
12-1-65

MAHARAJA PATEL,
to Government,
Works & Electricity Dept.

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GPW 62(1) 12 - 1 - 5

Mr. P.J.Morris, M.I.C.E.,M.I.W.E.,
M.R.S.H.,A.M.I.S.P., M.Cons.E.,
C/O Binnie & Partners,
Artillery House,
Artillery Row,
LONDON - S.W.-1.

Dear Sir,

Sub: Consultancy Arrangements for the Bangalore Water Supply and Sewerage Project.

Ref: Your letter No.PJM/C-31, dated 7-12-64 and subsequent communication No.PJM/302, dated 23-12-1964.

We thank you very much for the above letters. In particular, it was very good of you to have got the salary figures of the Chief Resident Engineer and the Resident Engineers checked up by your accounts department and to have found it possible to make a reduction in the same. We have incorporated the same in the draft agreement which is forwarded herewith.

We are glad to inform you that we have got the draft agreement scrutinized by the Law Department of the State Government at this end and the entire draft remains unmodified except for the following:-

(a) Clause XI.

In lieu of the words "operations of war or other causes", it is proposed to substitute the words "operations of war or other accidents, Act of God, or other causes, beyond the control of the Consultant". This, we understand, is the more appropriate language and we trust it will meet with your approval.

(b) Clause X.

In your letter dated 9-12-1964 addressed to our Chief Engineer (Mr. C.V.Balasundaram), you had suggested that the following lines found in the middle of the clause be dropped:

"Payment under this clause shall be calculated on the best estimate of the value of the relevant part of the New Works having regard to the services performed prior to its postponement, cancellation or abandonment."

Since the above has already been passed by our Law Department and the portion merely defines how payment is to be calculated in the event of postponement, etc., we have not deleted the same from the draft. Since

....Contd. P.2/

BANGALORE INTEGRATED WATER SUPPLY AND SANITATION SCHEME

MEMORANDUM OF AGREEMENT.

This Agreement made the.....day of..... in the year one thousand nine hundred and sixty between the Bangalore Water Supply and Sewerage Board, its assigns and successors at Law (hereinafter called the Client) of the one part and Binnie and Partners practising as Consulting Engineers at Artillery House, Artillery Row, London, S.W.1. (hereinafter referred to as the Consultant) of the other part.

WHEREAS the Client intends to proceed with the following works, viz.,

(i) Construction of syphon across Handihalla, gravity main, water treatment plant, reservoirs at treatment works, treatment plant buildings, pumping stations, reservoirs at the pumping stations, and pipelines from the treatment works to the terminal reservoirs within the Metropolitan area of Bangalore, to provide an additional water supply of 60 (sixty) million gallons per day from the River Cauvery

(ii) Construction of two sewage treatment works

(i) and (ii) above are hereinafter called the New Works.

(iii) Remodelling and extending the existing water supply distribution system

(iv) Remodelling and extending the existing sewerage system

(iii) and (iv) above are hereinafter called the Remodelling Works, the extent and scope being generally as indicated on the drawings and documents already prepared by the Client.

and has requested the Consultant to undertake and perform the duties hereinafter mentioned which the Consultant has agreed to do upon and subject to the terms and conditions hereinafter set forth.

NOW THIS AGREEMENT WITNESSETH and it is hereby agreed and declared by and between the parties hereto as follows:

405/3

I. APPOINTMENT OF CONSULTANT:-

The Client hereby appoints the Consultant and the Consultant accepts the appointment on the terms and conditions hereinafter set forth.

II. DUTIES OF THE CONSULTANT:-

(1) The duties to be performed by the Consultant in respect of New Works are:

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents necessary for seeking the formal approval of the appropriate Government Department or other authority to the construction of the New Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the New Works.

(b) Advice to the Client as to the necessity for additional field surveys and for special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

(a) Obtaining advice on the architectural treatment of the New Works or on other specialist matters as necessary.

(b) The making of designs, drawings, specifications and preparing schedules or bills of quantities, copies of all of which shall be made available to the Client.

(c) The making or adapting of international or other conditions of contract, forms of tender and invitations to tender and submitting the same

the same for the approval and decision of the Client.

(C) CONSTRUCTION STAGE:-

(a) Advising the Client as to tenders, tenderers, prices and estimates for the carrying out of the New Works provided that no tender shall be accepted or order placed by the Consultant except on behalf of the Client and with his authority in writing.

(b) The supervision of and other services in connection with the carrying out of the New Works including as may be necessary in the particular case:-

(i) Advising as to the preparation of the contract for accepted tenders.

(ii) Preparing any further plans, designs and drawings necessary for the carrying out of the New Works.

(iii) Examining and approving Contractors' details.

(iv) Arranging for the inspection and testing during manufacture of machinery and pressure pipes.

(v) Issuing instructions to Contractors and supervising the execution of the New Works including such site visits by the partners and senior staff as the Consultant considers to be necessary.

(vi) Issuing all certificates for payments to Contractors.

(vii) Supervising acceptance tests on site.

(viii) Assisting in settling disputes or differences that may arise between the Client and Contractors excepting litigation and arbitration.

(ix) Submission of regular monthly reports on the scheduled and actual progress of the New Works.

(x) Providing the Client on the completion of the New Works with six complete sets of record drawings and manuals of instructions as are necessary for operation and maintenance.

(2) The duties to be performed by the Consultant in respect of the Remodelling Works are:-

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents for securing the formal approval by the appropriate Government Department or other authority to the construction of the Remodelling Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the Remodelling Works.

(b) Advice to the Client as to the necessity for additional field survey or other special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

To provide direction and technical guidance for the subsequent detailed design and preparation of drawings, tender documents and estimates.

(C) CONSTRUCTION STAGE:-

To provide direction and Technical guidance for the construction of the Remodelling Works.

III. STAFFING:

The Consultant shall use such qualified and experienced staff as is necessary for the proper carrying out of all the above mentioned

duties in respect of the New Works and the Remodelling Works.

IV. REMUNERATION OF THE CONSULTANT:-

(1) The remuneration of the Consultant for the performance of the necessary services under Clause II(i) (A) (B) and (C) of this Agreement shall be a fee of 2.7 % (two and seven-tenths per cent) of the actual cost of the New Works, subject to the condition that the minimum fee payable to the Consultant shall be £260,000. Payments shall be made in instalments as set out in Appendix (1).

After the first two payments have been made the subsequent instalments shall be calculated on the cost of accepted tenders or, if no such tenders have been received, on the best estimate of the New Works at the time payments become due. Such payments or intermediate payments shall rank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the New Works, as defined in Clause VII (1).

The breakdown of the total remuneration for the different stages of the New Works as indicated below shall apply in the event of the postponement, cancellation or abandonment of the New Works as provided for in Clause X:

1) 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (A) have been completed.

2) A further 30 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (a) and (b) have been completed.

3) A further 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (c) have been completed.

4) The remaining 30 per cent of the said fee in proportion to the cost of the New Works carried out.

(2) The remuneration of the Consultant for the performance of the necessary services under Clause II(2) (A), (B) and (C) of this Agreement shall be a fee of 1.5% (one and one half per cent) of the estimated cost of the Remodelling Works subject to the condition that the minimum fee payable to the Consultant shall be £60,000. The estimated cost shall be calculated as defined in Clause VII (2) and payments shall be made in instalments as set out in Appendix (2).

(3) ADDITIONAL EXPENSES:

In addition to the remuneration to be paid under this Agreement, the Consultant shall be reimbursed by the Client all additional expenses actually and properly incurred in connection with the New Works and the Remodelling Works in respect of:

(a) Fees for legal advice taken or sought on behalf of the Client.

(b) Field surveys, site and ground explorations, laboratory and pilot plant tests, and any special investigations undertaken by arrangement with the Client, to the extent that any or all of these works are not carried out by the Client at his own expense.

(c) Inclusive salaries of the resident site staff provided or appointed to supervise construction of the New Works and Remodelling Works in accordance with the scales set out in Appendix (3) of this Agreement.

(d) The establishment and maintenance of site offices as may be required in so far as these are not provided by the Client or under any of the Client's civil contracts.

(e) The Client ordering modifications to completed designs or alterations to designs in progress, or requiring alterations to or the re-making of any specifications, drawings or other documents prepared in whole or in part by the Consultant, in which case the whole of the cost of revising, amending or reproducing documents to bring the work to the stage at which it was modified shall be the subject of additional payment computed on an agreed basis together with any out-of-pocket expenses incurred.

V METHOD OF PAYMENT:

(a) All sums due to the Consultant under Clause IV(1),(2) and (3) (a) (b) and (e) of this Agreement shall be paid in Pounds

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Sterling to the Consultant's account with the Westminister Bank, ltd. 62 Victoria street, London, S.W.1 within 40 days of the submission of the account.

(b) The advance payments due to the Consultant under Clause IV (3) (c) of this Agreement and referred to in Appendix (3) shall be paid 50 per cent in Pounds Sterling to the Consultant's Bank in London and 50 per cent in Rupees to the Consultant's Bank(to be nominated) in India both within 40 days of the submission of the account.

(c) The monthly payments due to the Consultant under Clause IV(3) (c) of this Agreement shall be paid in the proportion laid down in Appendix (3) - the Pound Sterling element to the Consultant's Bank in London and the Rupee element to the Consultant's Bank in India. Monthly payments shall be made within 30 days of submission by the Consultant's senior representative in India of a statement of the members of the supervisory site staff present and amounts due.

(d) Interest at the rate of 5 per cent per annum (Calculated daily) shall be added to all payments due to the Consultant but not paid within the periods given in Clause V (a) (b) (c).

(e) All sums due to the Consultant in Sterling shall be calculated useing a fixed rate of exchange of 13⅓ (Thirteen and one third) Rupees to the Pound Sterling.

VI. ADDITIONAL DUTIES:-

Should the Client require the Consultant to undertake additional duties such as advising or assisting in connection with:

(a) The valuation, purchase, sale or leasing of lands or the obtaining of wayleaves

(b) Arbitration or other legal proceedings

then the Consultant shall undertake such duties

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(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the Remodelling Works.

(e) Cost of lands and wayleaves, office buildings, colonies for housing, roads and communications, services and other miscellaneous items which do not form an integral part of the Remodelling Works.

(f) Import duty, customs duty, etc., on imported plant and materials.

VIII. SUPERVISION ON SITE:

The Consultant shall appoint on terms and conditions, subject to the approval of the Client which shall not be unreasonably withheld, the following staff:-

1) One Chief Resident Engineer

2) Four Resident Engineers

for such purposes and for such durations as are considered necessary by the Consultant for the New Works and the Remodelling Works for the discharge of his duties under Clauses II(1) c and II(2) c.

The Client will recommend local suitably qualified Engineers such as Executive and or Assistant Engineers, Junior Engineers and Supervisors and subject to the approval of the Consultant which shall not be unreasonably withheld, such Engineers will be employed as part of the supervisory staff.

The staff shall take instructions from the Consultant only.

IX. ACCESS TO THE NEW WORKS:

The Client or his nominees shall have access to the New Works at all stages and shall also be given facilities to discuss with the Chief Resident Engineer matter connected with the New Works.

X. POSTPONEMENT, CANCELLATION OR ABANDONMENT OF THE NEW WORKS AND REMODELLING WORKS:

In the event of the whole or any part of the above Works being postponed cancelled or abandoned, then the payment to be made to the Consultant for services performed in respect of the part of the above Works so postponed, cancelled or abandoned shall be determined in accordance with Clause IV(1), IV(2) and such other Clasues of this Agreement as may be applicable thereto (with such appropriate adjustments as may be necessary having regard to the

services performed prior to the works being so postponed, cancelled or abaondoned). Payment under this Clause shall be calculated on the best estimate of the value of the relevant part of the above Works having regard to the services performed prior to its postponement, cancellation or abandonment. If, at a later date, the above works which have been postponed, cancelled or abandoned, or any part thereof, are again proceeded with, any payment made under this Clause shall rank solely as a payment on account towards the total fee ultimately payable on such Works and calculated on their actual cost. If the whole or any part of the above works is postponed and additional services by the Consultant are necessary in connection with the resumption of such Works, a fee additional to the amount payable under Clause IV and other Clauses hereof shall be due, the fee being on an agreed basis.

XI. DAMAGE OR DESTRUCTION OF THE NEW WORKS:

If at any time before the completion of the above Works any part of the above Works or the equipment thereof shall be damaged or destroyed by operations of war or other accident, act of God, or other causes, beyond the control of the Consultant, the Client shall pay to the Consultant the appropriate fee for any additional works which may be required to be designed and supervised by them as a result of such damage or destruction.

XII. CARE AND DELIGENCE:

The Consultant shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by him and in so far as any of his duties is discretionary shall act fairly as between the Client and the Contractor or Contractors. The Consultant shall have authority to make minor alterations to design involving minor variations to cost as may be necessary or expedient, but he shall obtain prior approval of the Client to any substantial modification, variation, omission or addition to any Contract.

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XIII. INFORMATION TO BE SUPPLIED TO CONSULTANT:

The Client shall furnish all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consultant of the duties under this Agreement and the Consultant and the Client shall use all reasonable expedition and despatch in carrying out the provisions of this Agreement.

XIV. OWNERSHIP OF DOCUMENTS AND COPYRIGHT:

All documents prepared by the Consultant in connection with the New Works are the property and copyright of the Consultant, and the Client shall not be entitled, either directly or indirectly, to make use of such documents for the carrying out of any work beyond the New Works to which this Agreement relates, without the prior approval of the Consultant.

XV. PUBLICITY RELATING TO THE NEW WORKS:

In cases where notice or display boards are erected on the site, the Consultant shall have the right, if he so elects, to have his name, designation and address inscribed on such boards, and to have his name and designation included when commemorative tables or stones are provided in the finished structure. The Consultant shall also have the right, subject to the Client's approval, to publish descriptive articles, with or without illustrations, relevant to the New Works, either on his own account or in conjunction with other parties concerned.

XVI. NON-ASSIGNMENT:-

The Consultant shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof but it shall be lawful for the Consultant at any time to take into partnership another Partner or Partners and he or they shall then be deemed to be included in the expression "The Consultant", where the context so allows or permits.

XVII. ARBITRATION:

Any dispute or difficulty arising out of this Agreement shall be finally settled under the Rules of Conciliation and Arbitration

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of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

APPENDIX(1)

Payments under Clause IV(1)

A first payment of £13,000 shall be made 3 months after the signing of this greement. The second payment amounting to £26,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-twentieth of the current estimated total fee for the New Works subject to such additions as may be necessary to bring the fees paid in respect of any completed New Works to 2 7/10 per cent of the actual cost thereof.

APPENDIX (2)

PAYMENTS UNDER CLAUSE IV(2)

A first payment of £7,500 shall be made 3 months after the signing of this Agreement. The second payment amounting to £15,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-eigth of the current estimated total fee for the Remodelling Works.

An amount of 10% of the estimated total fee shall be retained, subject to a maximum amount of £6,000, and this amount shall be paid when the Consultant has discharged his duties under Clauses II(2) C.

APPENDIX (3)

(a) PAYMENTS UNDER CLAUSE IV(3)(c)

Category	Description	Minimum Experience	Total Monthly charge Rupees Plus Pounds Sterling	Payable in Rupees	Payable in Pounds Sterling
		in years	in Rs.	in Rs.	in £
	Expatriate Staff				
E.1	Chief Resident Engineer and /or Representative	15	8,000	5,500	2,500
E.2	Resident Engineer	7	6,250	4,250	2,000
	Locally Engaged Staff				
L.1	Executive Engineers		The Mysore Government's Scales of pay applicable to the different catogories of staff, together with the deputation and other allowances as may be decided upon in consultation with the Client.		
L.2	Assistant Engineers				
L.3	Junior Engineers				
L.4	Supervisors				
L.5	Chief Clerk				
L.6	Clerks				
L.7	Drivers				
L.8	Laboratory Assistants				
L.9	Survey Assistants				
L.10	Office Boys and Cleaners				

(b) The above monthly charges are inclusive and, in the case of expatriate staff, are payable to the Consultant from the date of arrival in India to the date of departure from India upon completion of duties. Periods of less than a month shall be charged pro rata. No deductions shall be made for absence from site on duty or on leave in India or for national or religious holidays.

(c) Staff who have to leave the site due to sickness, leave or unsuitability will be replaced by the Consultant at the appropriate rate of charging.

PAYMENTS:

(a) An advance payment of 60,000 rupees, payable 50% in pounds sterling and 50% in rupees, shall be made upon the arrival of the first member of the Consultant's expatriate resident site staff in India and this will be offset against the Consultant's account in twelve equal instalments commencing twelve months after the date of the advance payment.

(b) Payments shall be made monthly upon submission of the Consultant's account.

D/S (I)

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SECRETARY TO GOVERNMENT

No. 96

13 JAN 1965

PUBLIC WORKS & ELEC. DEPT.

13/1/65

HYDERABAD GOVT. SECRETARIAT

64

13 JAN 1965

P.W. & Telegraphs Dept.

TELEGRAPH DEPARTMENT

No. C.

Received from

Handed in at H. M.

Office Stamp

To

By

Transmitted to or Offices of Origin	Date.	Hour.	Minute.	Service Instructions.	Words.
TO				Recd. here at H. M.	

X 1950 DA 1273 NEW DELHI 12 STE 46 CHANDAPPA PATEL

WORKSEC BANGALORE

REFCE MYTEL SECOND JANY (.) KINDLY SEND URGENTLY TWO COPIES OF FINAL DRAFT AGREEMENT WITH MESSRS BINNY IF READY OTHERWISE AIRMAIL PROVISIONAL DRAFT ITSELF AS OUR EXECUTIVE DIRECTOR ON ANK IS PRESSING FOR THIS (.)-VENKATARAMAN ECOFAIRS-

409

STATE EXPRESS

CHANDAPPA PATEL
WORKSEC
BANGALORE

REFERENCE MYTEL SECOND JANUARY.(.) KINDLY SEND URGENTLY TWO COPIES OF FINAL DRAFT AGREEMENT WITH MESSRS BINNY IF READY OTHERWISE AIRMAIL PROVISIONAL DRAFT ITSELF AS OUR EXECUTIVE DIRECTOR ON BANK IS PRESSING FOR THIS (.)

VENKATARAMAN
ECOFAIRS

Not to be telegraphed

SECRETARY TO GOVERNMENT
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5
PUB. WORKS & ELEC DEPT.

MYSORE GOVT. SECRETARIAT
No. 81
15 JAN 1965
F.W.D. (SPECIAL IRRIGATION)

sd/-

(M.K. Venkataraman)
Under Secretary,
Ministry of Finance
(Department of Economic Affairs)
Telephone No.32643

No.F.12(60)/63-F.B. dated. 12.1.65

Copy forwarded by post in confirmation to Shri Chandappa Patel, Secretary to the Govt. of Mysore, Public Works & Electricity Deptt., Vidhana Soudha, Bangalore with a copy of the message received from our Executive Director on the Bank. Even if the draft agreement has not been finally approved by State Govt., two copies of the agreement, as drafted, together with the details of saving in M/s Binny's offer compared to Tahal's may kindly be sent to us immediately.

2. Copy to Sh. S. Rajagopala, D.D.G.(PHE), Min. of Health, N.Delhi, w.r.t. his u.o. note No.17-27/63-PHE(Pt) dt. 9th December, 1964.

3. Our E.D. has sent a telegram asking for the details as to how

P.T.O.

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BY AIRMAIL D.O.No.F.12/60/65-F.B.

New Delhi the 12th February, 65.

Dear Shri Sundara Rajan,

Kindly refer to your 'Telex' dated February 2, 1965. A copy of the Draft Agreement with M/s Binnie & Partners, London regarding Bangalore Water Supply and Sewerage Project, was airmailed to you on the 6th instant.

2. The Draft has been examined by us and the Ministry of Health and we find the terms of the said Agreement in order.

3. Kindly present the Draft Agreement to the International Development Association for their concurrence so that we can convey our approval to the State Government.

Yours sincerely,

(M.K. Venkataraman)

A copy of this may be sent to the Chairman B.W.S.S.B.

Shri K.S. Sundara Rajan,
Executive Director for India,
International Bank for Reconstruction
and Development,
Washington D.C. 20433.

17/2

Copy forwarded for information to:-

1. Shri Chandappa Patel, Secretary, Public Works Department, Government of Mysore, Bangalore.
2. Shri Basheshwar Nath, Under Secretary, Ministry of Health.
3. Shri S. Rajagopalan, DDG(PHE), Office of the DGHS, New Delhi.

per M. Venkataraman

(M.K. Venkataraman)
Under Secretary to the Government of India

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PA/57/65

17th Feb. 5

Dear Shri Narayanaswamy,

Enclosed please find a copy of the D.O.letter No.F.12/60/65-F.B. dated 12th February 1965 received from Shri M.K.Venkataraman, Under Secretary to the Government of India, Ministry of Finance, New Delhi, for your information.

Apparently, our proposals have met with the approval of the Government of India and we would perhaps be receiving concurrence of the I.D.A. in course of time.

Yours sincerely,

(Chandappa Patel)

Shri K.Narayanaswamy,
Chairman,
Bangalore Water Supply &
Sewerage Board,
Bangalore.

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GOVERNMENT OF MYSORE

No. RM 608 PTD 1964

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, ...3-2-...1965.

FROM

The Secretary to the Government of Mysore,
P.H., Labour & Manl.Adm.Department.

To

The Secretary to the Govt. of India,
Ministry of Health, New Delhi.

MYSORE GOVT. SECRET
No. 253
6 FEB 1965
P.W.D. (RECEIPT)

Sir,

Sub: Bangalore City Integrated Water-Supply and Drainage Scheme Central Assistance for 1965-66.

I am directed to state that to meet the long term needs of Bangalore City on integrated Water Supply and Drainage Scheme amounting to Rs. 28 crores (Rs.19.5 crores for Water Supply and Rs. 8.5 crores for Drainage) has been prepared as the present source of water supply for Bangalore can no longer meet the needs of the growing industrial City where population already exceeded 18 lakhs. The Government of India have already accorded both technical and financial clearance and the scheme has been taken up during 1963-64. An amount of Rs.50 lakhs was allotted during the year 1963-64 and expenditure of Rs.24 lakhs was incurred on purchase of pipes for the year 1964-65 For the year 1964-65 an amount of Rs.150 lakhs has been allotted. The phasing of the project is as follows:

(Rs. in crores)

1963-64	0.24)	
1964-65	1.50)	In III Five Year Plan
1965-66	3.26)	
1966-67	7.00)	
1967-68	7.50)	In IV Five Year Plan.
1968.69	6.50)	

The scheme will be completed by 1968-69. This being a Centrally Sponsored Scheme, the entire cost is borne by the Government of India. Hence no provision is made in the State Plan.

P.T.O

PROCEEDINGS OF THE GOVT. OF MYSORE.

Sub:-Water Supply - Bangalore Scheme - Supply of water from the Power channel from Sivasamudram Anicut to Netkal Balancing Reservoir - and reservation of water at Kabini Storage Dam for the Bangalore Water Supply Scheme -- Orders on

READ:(1) Proceeds of the 1st Meetings of the Technical Sub-Committee, Bangalore Water Supply and Sanitation Control Board held on 12-9-1963.

--

PREAMBLE.

The Technical Sub-Committee of the Bangalore Water Supply and Sanitation Control Board had opined that the power Channel from Sivasamudram Anicut upto Netkal Balancing Reservoir has a discharging capacity of 900 cusecs whereas 300 cusecs are only required for the generation of power at Sivasamudram, hence there would be adequate surplus capacity in the channel for drawing even upto 120 MGD or more. They had therefore recommended that the water required for the Bangalore Water Supply Scheme may be drawn through the power Channel, and the water supply requirements should have first priority over the requirement of power generation at Sivasamudram.

In the Project Report of the Kabini Dam, it is seen that 1,200 M.C.Ft. of water is ~~available~~ provided for Bangalore Water Supply from the Kabini Reservoir, after taking into account the direct irrigational needs, power draw-off, evaporation losses, and carry over etc. In the M.I.P.C. Board meeting held on 29.8.1962 this matter has been discussed and considering the availability of water at Kabini Reservoir have resolved that provision be made for reservation of 1.2 T.M.Cft. for supply of water to the Bangalore Water Supply Scheme and thus reduce the project ~~estimate~~ cost to the extent of the cost of storage of water that will have to be paid by the

by the Corporation authorities.

G.O.NO.PWD 141 GTW 62

Bangalore, dated the March 1965.

ORDER:

In view of the assurance that ~~excess~~ upto 600 cusecs water ~~will be available from the~~ can be drawn through the existing Power Channel, ~~of~~ taken from the Sivasamudram Anicut, (to the extent of 12 M.G.D.) ~~the~~ Govt. direct that the water requirement of Bangalore Water Supply be drawn through the existing power channel and there shall be priority for ~~water~~ supplying water from the Sivasamudram ~~Dam~~ Anicut to the Bangalore Water Supply scheme, over the ~~power~~ requirements of water for power generation subject to the condition that proportionate charge of the depreciated cost of the Anicut and power channel be paid by the Bangalore Water Supply and Sewerage Board. to the M.S.E.B.

It is also hereby ordered that reservation of 1.2 T.M.Cft. of water from the Kabini Dam be made for supply of water to cauvery river to be utilised for Bangalore Water Supply scheme. The proportionate cost of storage of 1.2 T.M.C.ft of water be paid by the Bangalore Water Supply and Sewerage Board, to Govt. to be given credit to the cost of Kabini Reservoir Project.

BY ORDER ETC.,

Under Secretary to Govt.
P.W.D.

To
1) the Chairman Bangalore Water Supply & Sewerage Board Bangalore
2) A.G. Mysore Bangalore
3) C.E (Gl) Bangalore
4) C.E (QP) "
5) C.E (H.E.C.P) "

6) Secy. M.S.E.B. Bangalore.

Copy to

1) power project (section) P.W.D

2) Electrical (section) P.W.D

3) Weekly Gazett.

4) M.S.G.S.

Proceedings of the Meeting of the Technical Sub-Committee of Major Irrigation Projects Control Board held on 29-8-1962 and 30-8-1962 at 9.00 AM

PRESENT

1. Shri H.Ananthachar,
   Retired Chief Engineer.

2. Shri M.A.Subhan Khan,
   Chief Engineer, Irrigation Projects.

3. Shri S.G.Balekundry,
   Officer on Special Duty, P.W.D.

4. Shri L.A.Koshti,
   Superintending Engineer,
   Malaprabha Project Circle.

5. Shri N.G.Joshi,
   Superintending Engineer,
   Bhadra Reservoir Circle.

6. Shri M.A.Moqueem,
   Superintending Engineer,
   Bhadra Canal Circle.
7. Shri H.Channiah, S.E., Mysore Circle.
8. Shri K.B.Murarappa,
   Deputy Secretary to Govt.,
   P.W.D. Irrigation.

I. Estimate for Regulator cum by pass in Mile No.38-A of Bhadra Reservoir Right Bank Canal:

The feasibility of the alternative proposals viz. (1) widening the canal in this reach with a view to carrying a discharge of 4625 cusecs from the point of entry of drainage water upto the existing weir and (2) constructing an additional relieving weir just in front of the inlet to relieve a part of the drainage water and suitably remodelling the canal upto the existing weir for the balance quantity of flow, may be examined and put up before the next meeting of Sub-Committee.

It was also given to understand that the tank above the canal did not discharge from 1931 and full information regarding the discharge over the tank weir may be put up for the entire period.

II. Plans and Estimates for the Devarabilikere Project for Rs.122 lakhs:

It was noticed that the sanctioned estimate was only

for Rs.40.7 lakhs and the break-up of the excess of Rs.81.3 lakhs, due to (i) increase in rates (ii) deeper foundations (iii) increase in spillway capacity may be worked out.

The bulk of the excess was noticed to be in the spillway portion especially because the foundation levels are much deeper than anticipated in the original estimate. Also the bore results are available only for the gorge portion, which show that the rock level rises towards the flanks. The possibility of providing the spillway on the right flank after taking detailed trial pits should be examined and put up at the next meeting. It was also suggested that by increasing the depth of discharge on spillway by 4 to 5 feet, the number of spillway gates could be reduced. This may also be examined.

The Possibility of reduction of cost in the provisions for (a) miscellaneous and roundings (b) maintenance during construction and (c) power lines may be examined.

III. Malaprabha Project:

The details furnished regarding Dam, Tunnel and Canal of Malaprabha Project were gone through and the following resolutions were passed:

1) Dam: It was resolved that a working estimate should be prepared and put up in the next meeting of the Technical Sub-Committee.

Model studies for the spillway should be referred to the K.R.S.Research Station, immediately.

2) Canal off take: The following three alternatives regarding Malaprabha Right Bank Canal from Reservoir to Nargund Branch take off point should be investigated in detail:

i) Alignment No.III: The length of this alignment is 6 miles, upto common point and the cost as

reported is Rs.3.32 Crores. Though this alignment appears the cheapest, it is feared that:

a) The cost of tunnel may go up as the depth of the shafts will be 400 to 600 ft. or, in the alternative, the maximum lead of mucking and ventilating is of the order of $1\frac{1}{2}$ miles, in the case of working with only two faces. Therefore detailed enquiries about the cost of tunnelling under such conditions may be made and provided for.

b) The soft strata met with at the entry and the exit of the tunnel appears to extend to a great height and therefore it may be necessary to provide for a reinforced tunnel lining in soft strata.

ii) Alignment No.I A.

The total length of this alignment is 9 miles upto the common point, and the length of deep cut exceeding 70 ft. and going upto 125 ft. is 3.5 miles. The cost of Canal in open cut with a covered duct in the deep cut is 6.19 Crores.

iii) Alignment No.IX:

This alignment is 18 miles in length and involves construction of two tunnels each of about one mile long. Cost of this alignment as now worked out is about Rs.5.5 Crores. This has an additional advantage of providing irrigation facilities to an additional area of 90,000 acres on either banks of Malaprabha River.

Again, the length of each of the two tunnels being about one mile only and the depth of maximum over burden in the tunnel portions being of the order of 100 to 150 ft. the work of tunnelling would be easier.

The sill level of the canal at the Head Regulator may have to be kept 4 to 5 ft. higher so as to maintain the level at the common point of the 3 alternatives.

The detailed investigations on the above three

Further the original contemplated period of time for executing the work could not be adhered to on account of these changes, (2) the provision of negotiated rates for the masonry below plus 20' level and current schedule of rates for the balance quantity of masonry to be executed hereafterwards. It was also noticed that the additional advantages secured over the original project was an increased storage from 12 T.M.C.ft. to 19.2 T.M.C.ft. and also increase of irrigation directly under the Reservoir from 6,000 to 10,000 acres and also provision for a second crop under Hullahalli and Madhavamanthri canal to an extent of 20,000 acres. Provision is also made for the extension of Right Bank Canal from K.R.Sagara to utilise the power storage to an extent of 5,000 MCft. which will develop an additional area of 20,000 acres. Incidentally provision for 1.2 T.M.C.ft. has been made for supplying water for Bangalore City Water Supply Scheme from Cauvery and the project estimate gets reduced to the extent the cost of the storage of water that will have to be paid by the Corporation authorities. Since second crop irrigation is also provided under this Reservoir and also since water is being given to the power station at Shimsha and Shiva, there will be a continuous supply of water for all the months in a year and it is proposed to instal penstock pipes in the Dam for development of power under the Reservoir itself to the extent possible, making use of the available head so that it could be used in the roundabout area. It is understood that the Chief Engineer, H.E.C.P. has been already addressed in this behalf.

It was explained by the Chief Engineer that the original tendered contractors for masonry and earth work have pleaded their inability to continue the work at their tendered rates on the plea that the contract

period is over and on account of delays on the part of the Department and on account of unforeseen circumstances, chief, being deep foundations which they had to go from 20' to a depth of 80 to 100' depth. The question of continuing the further work above - 20 level by the same agencies or by any others will have to be examined after getting the opinion of the Law Department on the following points:-

i) The contractors contend that the period of contract is already over and as such they are not bound to execute the work at their quoted rates,

ii) In the event of their contract being closed, what are the effects with regard to payment of compensation and other things that may be putforth,

iii) In case the contention of the contractor is not correct and contract could be extended by Government under any clause of the agreement, Is the contractor bound to carry out the work at the rates tendered or is he entitled to higher rates, ~~ix~~ if so, to what extent ?

The estimate is recommended for approval by the M.I.P.C. Board.

Sd/-
(H.Ananthachar),
Member(Presiding),
Civil Engineering Sub-Committee,
M.I.P.C. Board.

30.8.62
(M.A.Subhan Khan),
Chief Engineer, Irrigation Projects.

Dear Sir,

SUB: Bangalore water Supply Scheme - Assurance of Water Supply from Sivasamudram Anecut - Reservation of storage capacity - of Kabini storage Dam for Bangalore Water Supply.

I am desired to state that the Technical Sub-Committee under the former Bangalore Water Supply Control Board at its meeting held on 12-9-1963 have considered among other things the following two points:

a) Assurance of Water Supply from the power channel running from the Sivasamudram Anicut to the Netkal Balancing Reservoir and

b) Kabini Storage Dam for Bangalore Water Supply

Regarding Kabini storage Dam, an extract of the paragraph on "utilisation" in the revised estimate Project Report of Kabini Dam is reproduced below for your information and ready reference:

utilisation:-

(1)	Direct Irrigation under Kabini Reservoir by the two channels on the left and Right Banks taking off @ + 45 (6,300 acres on Left Bank + 3,700 acres on Right Bank) at 3.9 acres per 1.0 M.Cft.	2,551 M.(
(2)	II Crop for 20,000 acres directly under Reservoir Channels and the Hullahally Madhavamanthri Anicuts channels lower down. (7/10 x 10000 = 7,000) 7/10 x 17500 =12,250 } 19,250 or say 20,000) at 2.65 acres per 1 M.Cft.	7,539 M.
(3)	Power draw off for releasing the power reserve storage at Krishnarajasagar and utilising it for irrigation of 15,000 acres.	8,000 M.Cf
(4)	Evaporation losses	2,500 Mcft
(5)	Bangalore water supply	1,200 M.Cf
(6)	Carry over for the next year.	3,470 M.Cf
	Total:	25,260 M.Cf

PTO.

It is thus seen that 1200 M.Cft. of ater is available for Bangalore Water upply from the Kabani Reservoir.

In this connection I am to request ou kindly to clarify the following points at n early date:

i) What is the II Crop mentioned at tem No.2 under the head 'Utilization'?

ii) What has the power release from .R. Sagar to do with the irrigation under - - abani Reservoir?

iii) Whether the ~~stage~~ storage capacity of Kabini suffice the water requirements of the B'lore city.

An early reply is requested.

Yours sincerely,

26/7

The C.E. (I.P.) (by name)
Bangalore.

M.CHANNAPPA, B.E., A.M.I.E.,
Deputy Secretary to Government,
[redacted]ic Works Department(Irrn.).

Mysore Government Secretariat,
Vidhana Soudha,

Bangalore, dated 27th March, 1965.

D.O.No.PWD 141 GTW 62.

Dear Sir,

Sub:-Bangalore Water Supply Scheme-
Assurance of Water Supply from Sivasamudram Anecut- Reservation of storage capacity- of Kabini Storage Dam for Bangalore Water Supply.

I am desired to state that the Technical Sub-Committee under the former Bangalore Water Supply Control Board at its meeting held on 12-9-1963 have considered among other things the following two points:

a) Assurance of Water Supply from the power channel running from the Sivasamudram Anicut to the Netkal Balancing Reservoir and

b) Kabini Storage Dam for Bangalore Water Supply.

Regarding Kabini storage Dam, an extract of the paragraph on 'utilisation' in the revised estimate Project Report of Kabini Dam is reproduced below for your information and ready reference:

UTILISATION:-

(1)	Direct Irrigation under Kabini Reservoir by the two channels on the left and Right Banks taking off @ + 45(6,300 acres on Left Bank + 3,700 acres on Right Bank) at 3.9 acres per 1.0 M.Cft.	2,551 M.Cft.
(2)	II Crop for 20,000 acres directly under Reservoir Channels and the Hullahally Madhavamanthri Anicuts channels lower down. (7/10 x 10000 = 7,000) 19,250 or 7/10 x 17500 = 12,250) say 20,000) at 2.65 acres per 1 M.Cft.	7,539 M.cft.
(3)	Power draw off for releasing the power reserve storage at Krishnarajasagar and utilising it for irrigation of 15,000 acres.	8,000 M.Cft.
(4)	Evaporation losses	2,500 M.Cft.
(5)	Bangalore Water Supply	1,200 M.Cft.
(6)	Carry over for the next year.	3,470 M.Cft.
	Total:	25,260 M.Cft.

....2

It is thus seen that 1200 M.Cft of water is available for Bangalore Water Supply from the Kabini Reservoir.

In this connection I am to request you kindly to clarify the following points at an early date:

i)What is the II Crop mentioned at item No.2 under the head ' Utilization'?

ii)What has the power released from K.R.Sagar to do with the irrigation under Kabini Reservoir?

iii)Whether the storage capacity of Kabini suffice the water requirements of the Bangalore city.

An early reply is requested.

Yours sincerely,

ISSUED
Dated 25/3/65

24/3/65

To

Sri.I.M.Magdum,B.E.,M.I.E.,
Chief Engineer,Irrigation Projects,
Bangalore.

ncj/d.26365.

o/c
S/12

No.6(2)-R&I/65
Government of India
Ministry of Finance
Department of Economic Affairs
....

MYSORE GOVT. S.
No. 651.
22 MAR 1965
P.W.D.

New Delhi, the 20th March 1965

From:-
Shri N.Parasuraman,
Under Secretary to the
Government of India.

To -
The Deputy Secretary to
the Govt. of Mysore
Public Works Deptt. (Irrn.)
Bangalore

Subject:- Letter from M/S. Binnie & Partners, London - proposing formation of a Company known as Binnie & Partners (India) Ltd., - Bangalore Water Supply Scheme.

Sir,

I am directed to refer to your letter/~~Office Memorandum~~ No. PWD 141 GTW 62 dated ~~12-1-65~~ 20-2-65 on the subject mentioned above and to say that your letter/~~Office Memorandum~~ No. PWD 141 GTW 62 dated 12-1-65 mentioned therein does not appear to have been received in this Department. It is, therefore, requested that another copy of the same along with the other connected papers, if there is any, may kindly be sent to this Department at an early date.

Yours faithfully,

(N.Parasuraman)
Under Secretary to the Government of India

Appendix F. G.—1]

SUBJECT ..... As on page 431 .....

Diary No. of letter replied to .....

Mysore Government Secretariat.,

( )

the *196* .

Date of issue.....

Signed by .....

List of enclosures.....

Copied by.....

Examined by.....

Section

File No.

Serial No.

No.

To The under secy. to Govt of India
Ministry of Finance Deptt. of
Economic Affairs
New Delhi

With reference to your letter No 6(2)-R&I/65 D/20-3-65 on the above subject I am directed to forward here with a copy of this Govt letter No PWD 141 OTW 62 D/12-1-65 as desired.

J. F.

U.S. to Govt
P.W.D

27/3

Artillery House
Artillery Row
Westminister
London - S.W.1.

March 25, 1965.

Your Reference : PWD.141.GTW.62

Our Reference : PJN/382.

Mr. Chandappa Patel IAS.,
Secretary to the Government of Mysore
Public Works and Electricity Department
Vidhana Soudha
Bangalore.

Dear Sir :

Re: Bangalore Water Supply & Sewerage Project.

I refer to our recent discussions concerning the Agreement to cover our services in connection with the above project. These discussions were rendered necessary by observations made by the International Development Association on the draft Agreement which had previously been accepted by the Water Supply & Sewerage Board, the Mysore State Government, and the Government of India. The purpose of the discussions was to consider what modifications were required to the Agreement in the light of the observations made by the I.D.A.

Meetings were held in Bangalore last week with yourself, Mr.S.G.Balekundry, Chief Engineer (General), Mr. K. Narayana Swamy, Chairman, and other members of the Board. Further meetings have since been held in Delhi with Mr.S. Rajagopal Deputy Director General of Health Services (Public Health Engineer), Mr.M.K. Venkataraman, Under Secretary, Ministry of Finance, Department of Economic Affairs and Mr. Gregory Votaw of the I.D.A., which you attended with Mr.Narayana Swamy.

As a result of these meetings, the draft Agreement was modified in a manner in which it was considered it would be acceptable to all concerned including the I.D.A. and I understand that a copy will now be sent to the Association for early approval.

Two copies of the modified Agreement are enclosed and copies have also been handed to Mr. Rajagopalan and Mr. Venkataraman.

As far as my firm is concerned I confirm that the modified Agreement is acceptable, and that we will be able to commence our duties within three weeks from the date of the Agreement being signed.

Yours faithfully,

(P.J. Norris)
for and on behalf of Binnie & Partners.

Enc:2 copies of
Agreement.

BANGALORE INTEGRATED WATER SUPPLY AND SANITATION SCHEME

MEMORANDUM OF AGREEMENT.

This Agreement made the .....day of.....in the year one thousa nine hundred and sixty.....between the Bangalor Water Supply and Sewerage Board, its assigns and successors at Law (hereinafter called the Client) of the one part and Binnie and Partners (India) Limited of Artillery House, Artillery Row, London, S.W.1 (hereinafter referred to as th Consultant) of the other part.

WHEREAS the Client intends to proceed with the following works, viz.,

(i) Construction of syphon across Kandihalla, gravity main, water treatment plant, reservoirs at treatment works, treatment plant buildings, pumping stations, reservoirs at the pumping stations, and pipelines from the treatment works to the terminal reservoirs within the Metropolitan area of Bangalore, to provide an additional water supply of 60(sixty) million gallons per day from the River Cauvery.

(ii) Construction of two sewage treatment works

(i) and (ii) above are hereinafter called the New Works

(iii) Remodelling and extending the existing water supply distribution system

(iv) Remodelling and extending the existing sewerage system

(iii) and (iv) above are hereinafter called the Remodelling Works, the extent and scope being generally as indicated on the drawings and documents already prepared by the Client

and has requested the Consultant to undertake and perform the duties hereinafter mentioned which the Consultant has agreed to do upon and subject to the terms and conditions hereinafter set forth.

NOW THIS AGREEMENT WITNESSETH and it is hereby agree and declared by and between the parties hereto as follows

I. APPOINTMENT OF CONSULTANT:-

The Client hereby appoints the Consultant and the Consultant accepts the appointment on the terms and conditions hereinafter set forth.

II. DUTIES OF THE CONSULTANT:-

(1) The duties to be performed by the Consultant in respect of New Works are as follows and are described in greater detail in Appendix (4);

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents necessary for securing the formal approval of the appropriate Government Department or other authority to the construction of the New Works including as may be necessary in the particular case :-

(a) Investigation of available data or information relating to the New Works.

(b) Advice to the Client as to the necessity for additional field surveys and for special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

(a) Obtaining advice on the architectural treatment of the New Works or on other specialist matters as necessary.

(b) The making of designs, drawings, specifications and preparing schedules or bills of quantities copies of all of which shall be made available to the Client.

(c) The making or adapting of international or other conditions of contract, forms of tender and invitations to tender and submitting the same

the same for the approval and decision of the Client.

(C) CONSTRUCTION STAGE:-

(a) Advising the Client as to tenders, tenderers, prices and estimates for the carrying out of the New Works provided that no tender shall be accepted or order placed by the Consultant except on behalf of the Client and with his authority in writing.

(b) The supervision of and other services in connection with the carrying out of the New Works including as may be necessary in the particular case :-

(i) Advising as to the preparation of the contract for accepted tenders.

(ii) Preparing any further plans, designs and drawings necessary for the carrying out of the New Works.

(iii) Examining and approving Contractors' details.

(iv) Arranging for the inspection and testing of all materials, equipment and plant as, in the Consultant's opinion, would be appropriate.

(v) Issuing instructions to Contractors and supervising the execution of the New Works including such site visits as the Consultant considers to be necessary.

(vi) Issuing all certificates for payments to Contractors.

(vii) Supervising acceptance tests on site.

(viii) Assisting in settling disputes or differences that may arise between the Client and Contractors excepting litigation and arbitration.

(ix) Submission of regular monthly reports on the scheduled and actual progress of the New Works.

(x) Providing the Client on the completion of the New Works with six complete sets of record drawings and manuals of instructions as are necessary for operation and maintenance.

(xi) Performing any duties which the Consultant is required to carry out in accordance with this Agreement in relation to any contract for the execution of the works - provided that he shall have first approved that contract.

(2) The duties to be performed by the Consultant in respect of the Remodelling Works are as follows and are described in greater detail in Appendix (4):

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documnts for securing the formal approval by the appropriate Government Department or other authority to the construction of the Remodelling Works including as may be necessary in the particular case :-

(a) Investigation of available data or information relating to the Remodelling Works.

(b) Advice to the Client as to the necessity for additional field survey or other special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client formsuch works to be carried out.

(B) DESIGN STAGE:-

To provide direction and technical guidance for the subsequent detailed design and preparation of drawings, tender documents and estimates.

(C) CONSTRUCTION STAGE:-

To provide direction and technical guidance for the construction of the Remodelling Works.

III. STAFFING:

The Consultant shall use such qualified and experienced staff as is necessary for the proper carrying out of all the above mentioned

duties in respect of the New Works and the Remodelling Works.

IV. REMUNERATION OF THE CONSULTANT:-

(1) The remuneration of the Consultant for the performance of the necessary services under Clause II(1) (A) (B) and (C) of this Agreement shall be a fee of 2.7 % (two and seven-tenths per cent) of the actual cost of the New Works, subject to the condition that the minimum fee payable to the Consultant shall be £260,000. Payments shall be made in instalments as set out in Appendix (I).

After the first two payments have been made the subsequent instalments shall be calculated on the cost of accepted tenders or, if no such tenders have been received, on the best estimate of the New Works at the time payments become due. Such payments or intermediate payments shall rank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the New Works, as defined in Clause VII (1).

The breakdown of the total remuneration for the different stages of the New Works as indicated below shall apply in the event of the postponement, cancellation or abandonment of the New Works as provided for in Clause XI or in the event of termination of the Agreement in accordance with Clause XVIII:

1) 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (A) have been completed.

2) A further 30 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (a) and (b) have been completed.

3) A further 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (c) have been completed.

4) The remaining 30 per cent of the said fee in proportion to the cost of the New Works carried out

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(2) The remuneration of the Consultant for the performance of the necessary services under Clause II(2) (A), (B) and (C) of this Agreement shall be a fee of 1.5% (one and one half per cent) of the estimated cost of the Remodelling Works subject to the condition that the minimum fee payable to the Consultant shall be £60,000. The estimated cost shall be calculated as defined in Clause VII (2) and payments shall be made in instalments as set out in Appendix (2).

(3) ADDITIONAL EXPENSES:

In addition to the remuneration to be paid under this Agreement, the Consultant shall be reimbursed by the Client all additional expenses actually and properly incurred in connection with the New Works and the Remodelling Works in respect of :

(a) Fees for legal advice taken or sought on behalf of the Client.

(b) Field surveys, site and ground explorations, laboratory and pilot plant tests, and any special investigations undertaken by arrangement with the Client, to the extent that any or all of these works are not carried out by the Client at his own expense.

(c) Inclusive salaries of the resident site staff provided or appointed to supervise construction of the New Works and Remodelling Works in accordance with the scales set out in Appendix (3) of this Agreement.

(d) The establishment and maintenance of site offices as may be required in so far as these are not provided by the Client or under any of the Client's civil contracts. Such site offices shall include all office accommodation required by the Consultant in Bangalore to perform his duties during the Preliminary Stage and Design Stage referred to in Clause II (I) (A) and (I) (B).

(e) Providing and/or using local transportation required by the Consultant to perform his duties during the Preliminary Stage and Design Stage referred to in Clause II(I) (A) and (I) (B) in so far as this is not provided by the Client.

(f) The Client ordering modifications to completed designs or alterations to designs in progress, or requiring alterations to or the re-making of any specifications, drawings or other documents prepared in whole or in part by the Consultant, in which case the whole of the cost of revising, amending or reproducing documents to bring the work to the stage at which it was modified shall be the subject of additional payment computed on an agreed basis, together with any out-of-pocket expenses incurred.

V METHOD OF PAYMENT:

(a) All sums due to the Consultant under Clause IV (I), (2) and (3) (a) (b) and (c) of this Agreement shall be paid in Pounds Sterling to the Consultant's account with the Westminister Bank Ltd. 62 Victoria Street, London, S.W.1 within 40 days of the submission of the account.

(b) The advance payments due to the Consultant under Clause IV (3) (c) of this Agreement and referred to in Appendix (3) shall be paid 50 per cent in Pounds Sterling to the Consultant's Bank in London and 50 per cent in Rupees to the Consultant's Bank (to be nominated) in India both within 40 days of the submission of the account.

(c) The monthly payments due to the Consultant under Clause IV(3) (c) of this Agreement shall be paid in the proportion laid down in Appendix (3) - the Pound Sterling element to the Consultant's Bank in London and the Rupee element to the Consultant's Bank in India. Monthly payments shall be made within 30 days of submission by the Consultant senior representative in India of a statement of the members of the supervisory site staff present and amounts due.

(d) Interest at the rate of 5 per cent per annum (calculated daily) shall be added to all payments due to the Consultant but not paid within the periods given in Clause V(a) (b) (c).

(e) All sums due to the Consultant in Sterling shall be calculated using a fixed rate of exchange of 13⅓ (Thirteen and one third) Rupees to the Pound Sterling.

VI. ADDITIONAL DUTIES:-

Should the Client require the Consultant to undertake additional duties such as advising or assisting in connection with :

(a) The valuation, purchase, sale or leasing of lands or the obtaining of wayleaves

(b) Arbitration or other legal proceedings

then the Consultant shall undertake such duties

on terms and conditions to be agreed between the parties.

VII(I) COST OF NEW WORKS:

(A) For the purpose of ascertaining the remuneration to be paid under Clause IV(i) hereof the cost of the New Works or any part thereof shall be deemed to include :-

(a) the amount certified to Contractors, or the amount certified as the cost of the New Works if carried out by direct labour, of New Works designed, specified or supervised by the Consultant before deduction of liquidated damages or penalties if any.

(b) The market value of any manufactured goods, machinery and second-hand materials incorporated in the New Works.

(c) Construction roads for the gravity main, treatment plants, transmission main and the pumping stations and such office space as may be an integral part of the treatment plants and the pumping stations.

(B) The cost of New Works shall not include the following items :

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the New Works.

(e) Cost of lands and wayleaves, and the Clients' new administration building and housing colonies together with the cost of roads, services and other miscellaneous items to serve the administration building and the housing colonies, representing expenditure not certified to Contractors.

(f) Import duty, customs duty, etc., on imported plant and materials.

(2) ESTIMATED COST OF REMODELLING WORKS:

The estimated cost shall be as worked out on the basis of the designs and estimates as finally approved and shall be inclusive of all foreseen costs to the Client in carrying out the Remodelling Works, from whatever causes arising, except that the following items shall be excluded from the estimate :-

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the construction of the Remodelling Works.

(e) Cost of lands and wayleaves, and the Client's new administration building and housing colonies together with the cost of roads, services and other miscellaneous items to serve the administration building and the housing colonies, representing expenditure not certified to Contractors.

(f) Import duty, customs duty, etc., on imported plant and materials.

VIII. CONSULTANT'S TAX LIABILITY:

The Consultant shall pay all taxes for which he is liable according to the Indian Tax Laws.

IX. SUPERVISION ON SITE:

The Consultant shall appoint on terms and conditions, subject to the approval of the Client which shall not be unreasonably withheld, the following staff :-

1) One Chief Resident Engineer

2) Four Resident Engineers

for such purposes and for such durations as are considered necessary by the Consultant for the New Works and the Remodelling Works for the discharge of his duties under Clause II(1) c and (2) c. The Client shall be advised of the names and qualifications of the above staff with particular note of their length of employment with the Consultant.

The Client will recommend local suitably qualified Engineers such as Executive and/or Assistant Engineers, Junior Engineers and Supervisors and subject to the approval of the Consultant which shall not be unreasonably withheld, such Engineers will be employed as part of the supervisory staff.

The staff shall take instructions from the Consultant only.

X. ACCESS TO THE NEW WORKS AND REMODELLING WORKS:

The Client or his nominees shall have access to the New Works at all stages and shall also be given facilities to discuss with the Chief Resident Engineer matters connected with the New Works. Similar access arrangements and facilities shall apply also to the Remodelling Works.

XI. POSTPONEMENT, CANCELLATION OR ABANDONMENT OF THE NEW WORKS AND REMODELLING WORKS OR TERMINATION OF THE AGREEMENT:

In the event of the whole or any part of the above Works being postponed, cancelled or abandoned or of the Agreement being terminated, then the payment to be made to the Consultant for services performed in respect of the part of the above Works so postponed, cancelled or abandoned

or before termination of the Agreement shall be determined in accordance with Clause IV (1) and (2) and such other Clauses of this Agreement as may be applicable thereto (with such appropriate adjustments as may be necessary having regard to the services performed prior to the Works being so postponed, cancelled or abandoned or the Agreement being terminated). Payment under this Clause shall be calculated on the best estimate of the value of the relevant part of the above Works having regard to the services performed prior to its postponement, cancellation or abandonment or the termination of the Agreement. If, at a later date, the above Works which have been postponed, cancelled or abandoned, or any part thereof, are again proceeded with, any payment made under this Clause shall rank solely as a payment on account towards the total fee ultimately payable on such Works and calculated on their actual cost. If the whole of any part of the above Works is postponed and additional services by the Consultant are necessary in connection with the resumption of such Works, a fee additional to the amount payable under Clause IV and other Clauses hereof shall be due, the fee being on an agreed basis.

In the event of the above Works or any part thereof being postponed for a period longer than five years, such Works or part thereof shall be considered to have been abandoned.

XII DAMAGE OR DESTRUCTION OF THE NEW WORKS:

If at any time before the completion of the above Works any part of the above Works or the equipment thereof shall be damaged or destroyed by operations of war or other accident, act of God, or other causes beyond the control of the Consultant, the Client shall pay to the Consultant the appropriate fee for any additional works which may be required to be designed and supervised by them as a result of such damage or destruction.

XIII. CARE AND DILIGENCE:

The Consultant shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by him and in so far as any of his duties is discretionary shall act fairly as between the Client and the Contractor or Contractors. The Consultant shall have authority to make minor alterations to design involving minor variations to cost as may be necessary or expedient, but he shall obtain prior approval of the Client to any substantial modification, variation, omission or addition to any Contract.

XIV. INFORMATION TO BE SUPPLIED TO CONSULTANT:

The Client shall furnish all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consultant of the duties under this Agreement and the Consultant and the Client shall use all reasonable expedition and despatch in carrying out the provisions of this Agreement.

XV. OWNERSHIP OF DOCUMENTS AND COPYRIGHT:

The Consultant shall be the rightful owner of all documents prepared by him in connection with the New Works but will normally permit the Client to use them elsewhere on request.

XVI. PUBLICITY RELATING TO THE NEW WORKS:

In cases where notice or display boards are erected on the site, the Consultant shall have the right, if he so elects, to have his name, designation and address inscribed on such board, and to have his name and designation included when commemorative tables or stones are provided in the finished structure. The Consultant shall also have the right, subject to the Client's approval, to publish descriptive articles, with or without illustrations, relevant to the New Works, either on his own account or in conjunction with other parties concerned.

XVII. NON-ASSIGNMENT:-

The Consultant shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof.

XVIII. TERMINATION OF AGREEMENT:

In the event of substantial failure by the Consultant to comply wi the terms of this Agreement the Client may terminate the Agreement upon giving the Consultant ninety days written notice. Similarly, the Consultant will have the right to terminate the Agreement, after 90 days written notice, in the event of the Client failing to carry out his obligations under the Agreement.

XIX. ARBITRATION:

Any dispute or difficulty arising out of this Agreement shall be finally settled under the Rules of Conciliation and Arbitration

of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

APPENDIX (1)

PAYMENTS UNDER CLAUSE IV(1)

A first payment of £13,000 shall be made 3 months after the signing of this Agreement. The second payment amounting to £26,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-twentieth of the current estimated total fee for the New Works subject to such additions as may be necessary to bring the fees paid in respect of any completed New Works to 2 7/10 per cent of the actual cost thereof.

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APPENDIX (2)

PAYMENTS UNDER CLAUSE IV (2)

A first payment of £7,500 shall be made 3 months after the signing of this Agreement. The second payment amounting to £15,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall a not less than one-eigth of the current estimated total fee f the Remodelling Works.

An amount of 10% of the estimated total fee shall be retained, subject to a maximum amount of £6,000, and this amount shall be paid when the Consultant has discharged his duties under Clause II(2) C.

APPENDIX (3)

(a) PAYMENTS UNDER CLAUSES IV(3) (b)(c)

Category	Description	Minimum Experience.	Total Monthly charge Rupees plus Pounds Sterling.	Payable in Rupees	Payable in Pounds Sterling.
		in years	in Rs.	in Rs.	in £.
	Expatriate Staff				
E.1	Chief Resident Engineer and/or Representative	15	8,000	5,500	2,500
E.2	Resident Engineer	7	6,250	4,250	2,000
	Locally Engaged Staff				
L.1	Executive Engineers		The Mysore Government's scales of pay applicable to the different categories of staff, together with the deputation and other allowances as may be decided upon in consultation with the Client.		
L.2	Assistant Engineers.				
L.3	Junior Engineers.				
L.4	Supervisors.				
L.5	Chief Clerk				
L.6	Clerks				
L.7	Drivers.				
L-8	Laboratory Assistants				
L.9	Survey Assistants.				
L.10	Office Boys and Cleaners.				

(b) The above monthly charges are inclusive and, in the case of expatriate staff, are payable to the Consultant from the date of arrival in India to the date of departure from India upon completion of duties. Periods of less than a month shall be charged pro rata. No deductions shall be made for absence from site on duty or on leave in India or for national or religious holidays.

(c) Staff who have to leave the site due to sickness, leave or unsuitability will be replaced by the Consultant at the appropriate rate of charging.

PAYMENTS:

(a) An advance payment of 60,000 rupees, payable 50% in pounds sterling and 50% in rupees, shall be made upon the arrival of the first member of the Consultant's expatriate resident site staff in India and this will be offset against the Consultant's account in twelve equal instalments commencing twelve months after the date of advance payment.

b) Payments shall be made monthly upon submission of the Consultant's account.

APPENDIX (4)

DESCRIPTION OF CONSULTANT'S DUTIES.

WATER SUPPLY AND SEWAGE TREATMENT:

1. Review the design of the New Works by appraising basic data and assumptions, investigating likely alternatives, confirming or changing the design decisions already taken, and preparing preliminary plans, estimates, and schedules of construction. A functional design report with this information, and noting any matters needing special attention in the specifications, shall be submitted to the Client for securing the formal approval of the appropriate Government Department or other authority.

a. Specific consideration shall be given to the economical pipe diameter, number and location of pumping stations, protection against water surge, mixing, flocculating and settling methods, filter rates, and general hydraulic flow considerations within the city (this last in conjuction with the functional design of the water distribution portion).

b. For sewage treatment, evaluate the effluent criteria which should be met at present and in the future, and recommend a program of sewage treatment facilities to achieve the criteria.

II. Carry out the detailed design and prepare the tender documents, including necessary construction drawings. Prequalify tenderers as required, evaluate bids, recommend awards and prepare contracts.

III. Administer the construction program, co-ordinating, planning, and reporting by critical path techniques, and continuously supervise the technical goodness of the construction.

B. WATER DISTRIBUTION AND SEWERS:

For the water distribution and sewerage systems, review the planning, consider alternatives and confirm or modify the design decisions taken. In both cases, functional design reports shall be prepared in sufficient detail to fix the major elements, and to indicate the manner and details of the design of these and the minor elements. In the water distribution, this work shall include an examination of the flow and pressure characteristics of the existing and proposed remodelleddistribution systems. They shall also include outline estimates and indicate the form and content of the detailed specifications to be drawn up and the construction schedules, emphasizing matters needing special attention therein. The functional design reports shall be submitted to the Client for securing the formal approval of the appropriate Government Department or other authority.

C. PROGRAM:

A schedule for the presentation of the first draft of the functional design reports and, following final approval of the water supply report, completion of the detailed design and tender documents shall be worked out with the Client to enable the Client to secure the formal approval of the appropriate Government Department or other authority as early as possible.

Chandappa Patel,

439

PWS/115/65

29th March 5

Dear Shri Narayanaswamy,

I am forwarding herewith a copy of the letter No.PJN/382 dated 25-3-1965 from Mr. P.J.Norris of Messrs Binnie & Partners, London together with the copy of the draft agreement which, it appears, has been prepared by him taking into account the discussions we had with him in New Delhi in the chambers of the Joint Secretary (Shri Krishnamurthy) and thereafter with Shri Venkataraman, Under Secretary, Govt. of India, Ministry of Finance, (Dept of Economic Affairs) and Mr. Mirani. I have not yet received any information from Shri Venkataraman. I am trying to get him on telephone to-day.

This is for your kind information.

Yours sincerely,

(Chandappa Patel)

Shri K.Narayanaswamy,
Chairman,
B.W.S.& S.Board,
Bangalore.

MYSORE GOVT. SECRETARIAT
No 182/FD/65
30 MAR 1965
D (SPECIAL IRRIGATION)

SECRETARY TO GOVERNMENT
No. PWS/2099
30 MAR 1965
PUBLIC WORKS & ELEC. DEPT.

DS (I)

SM. G Seetan

Minute in the Cud file

30/3/65

Artilleery House
Artillery Row
Westminister
London - S.W.1.
March 25, 1966.

Your Reference: PWD 141 GTW 62
our Reference: PWN/382

Mr.Chandappa Patel,
Secretary to Govt. of Mysore,
P.W & E Dept.
Bangalore.

Dear Sir,

Re: Bangalore Water Supply & Sewerage Project.

--

I refer to our recent discussions concerning the Agreement to cover our services in connection with the above project. These discussions were rendered necessary by observations made by the International Development Association on the draft Agreement which had previously been accepted by the Water Supply & Sewerage Board, the Mysore State Government, and the Government of India. The purpose of the discussions was to consider what modifications were required to the Agreement in the light of the observations made by the I.D.A.

Meetings were held in Bangalore last week with yourself, Mr.S.G.Balekundry, Chief Engineer (General), Mr. K.Narayana Swamy, Chairman, and other members of the Board. Further meetings have since been held in Delhi with Mr. S.Rajagopalan, Deputy Director General of Health Services (Public Health Engineer) Mr. M.K. Venkataraman, Under Secretary, Ministry of Finance, Department of Economic Affairs and Mr. Gregory Votaw of the I.D.A., which you attended with Mr. Narayana Swamy.

As a result of these meetings, the draft Agreement was modified in a manner in which it was considered it would be acceptable to all concerned including the I.D.A. and I understand that a copy will now be sent to the Association for early approval.

Two copies of the modified Agreement are enclosed and copies have also been handed to Mr. Rajagopalan and Mr. Venkataraman.

As far as my firm is concerned I confirm that the modified Agreement is acceptable, and that we will be able to commence our duties within three weeks from the date of the Agreement being signed.

Yours faithfully,

P J Norris
for and on behalf of Binnie & Partn

"Copy"

447

No. IPH/BWSS/64-65

Office of the Chief Engineer
(General) of Mysore, P.W.D.,
Bangalore 31-3-1965

NOTE

Sub: Bangalore Water Supply and Sewerage Project
Draft Agreement as finally sent by Messrs.
Binnie & Partiners.

In this office letter No. IWSS/DAG/64-65 dated 20-3-1965, it was pointed out that while there was an agreement on certain amendments to the Draft Agreement in the light of the comments made by the World Bank, there was no agreement on two issue viz:-

(1) Inclusion of Termination Clause.

(2) Ownership of the Document.

In the Draft Agreement now sent by the Firm, the Firm have agreed for the inclusion of the Termination Clause. Regarding the ownership of the Document and copy right, the Consultants have modified the clause so as to allow the client to use them elsewhere on request. There are no other changes in the Agreement. The Agreement may, therefore, be accepted.

(S.G. Balekundry)
Chief Engineer (General) P.W.D

BANGALORE WATER SUPPLY & SEWERAGE BOARD
Ch. P.S
No. 44
Date 31.3.65
BANGALORE-1.

To

The Chairman,
Bangalore W/S & Sewerage Board,
M.G.I.D. Buildings (Annexe)
Bangalore-1

Msr/30-3

Forwarded with a request for kindly taking urgent action, accordingly.

Chairman
BANGALORE WATER SUPPLY & SEWERAGE B

31/3/65

Urgent
31/3

Chandappa Patel,
SECRETARY.

GOVERNMENT OF MYSORE,
P. W. AND ELECL. DEPARTMENT,
BANGALORE,

Dated.. 31st. March. 1965.

Dear Shri Narayanaswamy,

As mentioned in my letter of 29-3-1965, I contacted Shri Venkataraman on 29th itself in the evening. He gave me to understand that the draft Agreement sent by Mr. Norris is the one informally discussed and agreed to by the Finance Ministry. He suggested that the State Government should send the draft Agreement as quickly as possible, to the Finance Ministry so that it could be forwarded to the World Bank for their concurrence.

I wonder if the draft Agreement has been scrutinised and is acceptable to the Board.

Yours sincerely,

(Chandappa Patel)

Shri K. Narayanaswamy,
Chairman,
Bangalore Water Supply &
Sewerage Board,
Bangalore.

This is not correct as the chairman informed me on telephone that he is sending his views. CP 3/3

Received 10.4.89

441

INVEST WISELY
Buy NATIONAL SAVINGS CERTIFICATES

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

Please send a draft consultancy agreement to enable us to proceed further

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To
By By

Number of Priority Date Time Month Service Instructions Words

TO Recd. here at H. M.

:X 2115 DA 1447 NEW DELHI 3 STE 43 CHANDAPPA PATEL

WORKSEC BANGALORE :

:KINDLY EXPEDITE RETURN DRAFT CONSULTANCY AGREEMENT BANGALORE

WATER SUPPLY SCHEME SENT BY NORRIS ON MARCH 25 STOP IMMEDIATE

ACTION NECESSARY AS MATTER ALREADY DELAYED STOP PLEASE ALSO WIRE

PRESENT POSITION AMENDMENT STATUTE AND INCREASED WATER CHARGES

STOP ::VENKATARAMAN ECOFAIRS :

STATE EXPRESS TELEGRAM

VENKATARAMAN
ECOFAIRS
NEW DELHI

PLEASE REFER YOUR TELEGRAM 3RD INSTANT (STOP) DRAFT CONSULTANCY AGREEMENT IS BEING SENT TODAY (STOP) DRAFT AMENDMENT ACT GETTING READY (STOP)

'HORNBEC'

(Not to be Telegraphed)

Sd/- (M.Channappa)
DEPUTY SECRETARY TO GOVERNMENT,
P.W.D.(IRRIGATION)

No.PWD 141 GTW 62 Bangalore,dated the 5.4.65

Post copy forwarded to Sri Venkataraman, Under Secretary, Deptt. of Economic Affairs, Ministry of Finance,New Delhi, in confirmation.

M Channappa 5/4/65

(M.CHANNAPPA)
DEPUTY SECRETARY TO GOVT.
P.W.D.(IRRIGATION)

Issued
Dated 5/4/65

STATE EXPRESS TELEGRAM

VENKATARAMAN
ECOFAIRS
NEW DELHI

-.-.-.

STATE ~~ORDINARY~~ TELEGRAM

VENKATARAMAN
VF/FAIRS
EN DELHI

PLEASE REFER YOUR TELEGRAM ~~[illegible]~~ SID IRRIGAT
(STOP) DRAFT CONSULTANCY AGREEMENT IS BEING
SENT TODAY (STOP) Draft ammendment act getting rece
'URGENT'

(Not to be Telegraphed)

Sd/- (M.Channappa)
Deputy Secretary to Govt.
P.W.D.(Irrigation).

No.PWD 141 GTW 62 Bangalored,dated the 5.4.65

Post copy forwarded to Sri Venkataraman, Under
Deptt. of Economic Affairs,Ministry of Finance,New D

5/4/65

(M.Channappa)
DEPUTY SECRETARY TO GOVER
P.W.D.(IRRIGATION).

M.CHANNAPPA, B.E., A.M.I.E.,
Deputy Secretary to Government,
Public Works Department (Irrn.).

Mysore Government Secretariat,
Vidhana Soudha,

D.O.No.PWD 141 GTW 62.

Bangalore, dated 5th April, 1965.

Dear Shri. Venkataraman,

Sub:-Consultancy arrangement for the Bangalore Water Supply & Sewerage Project -Draft agreement- Your telegram dated 3-4-1965.

—

With reference to the above and in pursuance of the discussions held at Bangalore and New Delhi with the Representatives of the World Bank and M/s. Binny & Partners regarding certain modifications and inclusion of termination clause etc., I am desired to forward herewith a copy of the draft agreement duly approved by this Government for further action. The draft agreement as enclosed now may kindly be got approved by the Finance Ministry and transmitted to the World Bank authorities for needful action in the matter.

A copy of the draft agreement etc., is also sent to Shri. S. Rajagopalan, Deputy Director General of Health, Ministry of Health, Government of India, New Delhi, for information.

Yours sincerely,

Sd/-

Shri. M.K. Venkataraman,
Under Secretary to the Govt. of India,
Ministry of Finance (Deptt. of Economic Affairs), New Delhi.

Copy together with a copy of the draft agreement is forwarded to Shri. S. Rajagopalan, Deputy Director General of Health, Ministry of Health, Government of India, New Delhi, for information.

-do- to the Chairman, Bangalore Water Supply and Sewerage Board, Bangalore, for information.

Issued
Dated 5/4/65

5/4/65

Deputy Secretary to Government,
Public Works Department (Irrn.).

BANGALORE INTEGRATED WATER SUPPLY AND SANITATION SCHEME

MEMORANDUM OF AGREEMENT

This Agreement made the.....day of.....in the year one thousand nine hundred and sixty.....between the Bangalore Water Supply and Sewerage Board, its assigns and successors at Law(hereinafter called the Client) of the one part and Binnie and Partners(India) Limited of Artillery House, Artillery Row, London, S.W.1(Hereinafter referred to as the Consultant), of the other part.

WHEREAS the Client intends to proceed with the following works, viz.,

(i) Construction of syphon across Handihalla, Gravity main, water treatment plant, reservoirs at treatment works, treatment plant buildings, pumping stations, reservoirs at the pumping stations, and pipelines from the treatment works to the terminal reservoirs within the Metropolitan area of Bangalore, to provide an additional water supply of 60(sixty) million gallons per day from the River Cauvery.

(ii) Construction of two sewage treatment works

(i) and (ii) above are hereinafter called the New Works

(iii) Remodelling and extending the existing water supply distribution system

(iv) Remodelling and extending the existing sewerage system.

(iii) and (Iv) above are hereinafter called the Remodelling Works, the extent and scope being generally as indicated on the drawings and documents already prepared by the Client

and has requested the Consultant to undertake and perform the duties hereinafter mentioned which the Consultant has agreed to do upon and subject to the terms and conditions hereinafter set forth.

NOW THIS AGREEMENT WITNESSETH and it is hereby agreed and declared by and between the parties hereto as follows:

I. APPOINTMENT OF CONSULTANT:-

The Client hereby appoints the Consultant and the Consultant accepts the appointment on the terms and conditions hereinafter set forth.

II. DUTIES OF THE CONSULTANT:-

(1) The duties to be performed by the Consultant in respect of New Works are as follows and are described in greater detail in Appendix(4);

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and

engineering documents necessary for securing the formal approval of the appropriate Government Department or other authority to the construction of the New Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the New Works.

(b) Advice to the Client as to the necessity for additional field surveys and for special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

(a) Obtaining advice on the architectural treatment of the New Works or on other specialist matters as necessary.

(b) The making of designs, drawings, specifications and preparing schedules or bills of quantities copies of all of which shall be made available to the Client.

(c) The making or adapting of international or other conditions of contract, forms of tender and invitations to tender and submitting the same for the approval and decision of the Client.

(C) CONSTRUCTION STAGE:-

(a) Advising the Client as to tenders, tenderers, prices and estimates for the carrying out of the New Works provided that no tender shall be accepted or order placed by the Consultant except on behalf of the Client and with his authority in writing.

(b) The supervision of and other services in connection with the carrying out of the New Works including as may be necessary in the particular case:-

(i) Advising as to the preparation of the contract for accepted tenders.

(ii) Preparing any further plans, designs and drawings necessary for the carrying out of the New Works.

(iii) Examining and approving Contractors' details.

[illegible]

[illegible]

[illegible]

(iv) Arranging for the inspection and testing of all materials, equipment and plant as, in the Consultant's opinion, would be appropriate.

(v) Issuing instructions to Contractors and supervising the execution of the New Works including such site visits as the Consultant considers to be necessary.

(vi) Issuing all certificates for payments to Contractors.

(vii) Supervising acceptance tests on site.

(viii) Assisting in settling disputes or differences that may arise between the Client and Contractors excepting litigation and arbitration.

(ix) Submission of regular monthly reports on the scheduled and actual progress of the New Works.

(x) Providing the Client on the completion of the New Works with six complete sets of record drawings and manuals of instructions as are necessary for operation and maintenance.

(xi) Performing any duties which the Consultant is required to carry out in accordance with this Agreement in relation to any contract for the execution of the works - provided that he shall have first approved that contract.

(2) The duties to be performed by the Consultant in respect of the Remodelling Works are as follows and are described in greater detail in Appendix (4):

(A) PRELIMINARY STAGE:-

The preparation of the project report with drawings and engineering documents for securing the formal approval by the appropriate Government Department or other authority to the construction of the Remodelling Works including as may be necessary in the particular case:-

(a) Investigation of available data or information relating to the Remodelling Works.

(b) Advice to the Client as to the Necessity for additional field survey or other special investigations, laboratory tests, pilot plant experiments or other investigations as may be necessary and arranging on behalf of the Client for such works to be carried out.

(B) DESIGN STAGE:-

To provide direction and technical guidance for the subsequent detailed design and preparation of drawings, tender documents and estimates.

(c) CONSTRUCTION STAGE:-

To provide direction and technical guidance for the construction of the Remodelling Works.

III. STAFFING:-

The Consultant shall use such qualified and experienced staff as is necessary for the proper carrying out of all the above mentioned duties in respect of the New Works and the Remodelling Works.

IV. REMUNERATION OF THE CONSULTANT:-

(1) The remuneration of the Consultant for the performance of the necessary services under Clause II(i) (A) (B) and (C) of this Agreement shall be a fee of 2.7%(Two and seven-tenths per cent) of the actual cost of the New Works, subject to the condition that the minimum fee payable to the Consultant shall be £260,000. Payments shall be made in instalments as set out in Appendix (I).

After the first two payments have been made the subsequent instalments shall be calculated on the cost of accepted tenders or, if no such tenders have been received, on the best estimate of the New Works at the time payments become due. Such payments or intermediate payments shall rank solely as payments on account towards the total fee ultimately payable and calculated on the cost of the New Works, as defined in Clause VI^{I}(1).

The breakdown of the total remuneration for the different stages of the New Works as indicated below shall apply in the event of the postponement, cancellation or abandonment of the New Works as provided for in Clause XI or in the event of termination of the Agreement in accordance with Clause XVIII:

1) 20 per cent of the said fee when such duties as may be applicable under clause II(1) (A) have been completed.
2) A further 30 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) (C) (a) and (b) have been completed.
3) A further 20 per cent of the said fee when such duties as may be applicable under Clause II(1) (B) have been completed.
4) The remaining 30 per cent of the said fee in proportion to the cost of the New Works carried out.

(2) The remuneration of the Consultant for the performance of the necessary services under Clause I^{I}(2) (A),(B) and (C) of this Agreement shall be a fee of 1.5% (One and one half per cent) of the estimated cost of the Remodelling Works subject to the condition that the minimum fee payable to the Consultant shall be £60,000. The estimated cost shall be calculated as defined in Clause VII(2) and payments shall be made in instalments as set out in Appendix (2).

in Appendix(2).

(3) ADDITIONAL EXPENSES:-

In addition to the remuneration to be paid under this Agreement, the Consultant shall be reimbursed by the Client all additional expenses actually and properly incurred in connection with the New Works and the Remodelling Works in respect of:

(a) Fees for legal advice taken or sought on behalf of the Client.

(b) Field surveys, site and ground explorations, laboratory and pilot plant tests, and any special investigations undertaken by arrangement with the Client, to the extent that any or all of these works are not carried out by the Client at his own expense.

(c) Inclusive salaries of the resident site staff provided or appointed to supervise construction of the New Works and Remodelling Works in accordance with the Scales set out in Appendix (3) of this Agreement.

(d) The establishment and maintenance of site offices as may be required in so far as these are not provided by the Client or under any of the Client's Civil Contracts. Such site offices shall include. All office accommodation required by the Consultant in Bangalore to perform his duties during the preliminary Stage and Design Stage referred to in Clause II(I) (A) and (I) (B).

(e) Providing and/or using local transportation required by the Consultant to perform his duties during the preliminary Stage and Design Stage referred to in Clause II(I) (A) and (I) (B) in so far as this is not provided by the Client.

(f) The Client ordering modifications to completed designs or alterations to designs in progress, or requiring alterations to or the re-making of any specifications, drawings or other documents prepared in whole or in part by the Consultant, in which case the whole of the cost of revising, amending or reproducing documents to bring the work to the stage at which it was modified shall be the subject of additional payment computed on an agreed basis together with any out-of-pocket expenses incurred.

V. METHOD OF PAYMENT:-

(a) All sums due to the Consultant under Clause IV(I), (2) (3) (a) (b) and (c) of this Agreement shall be paid in pounds Sterling to the Consultant's account with the Westminister Bank ltd 62 Victoria Street, London, S.W.1 within 40 days of the submission of the account.

(b) The advance payments due to the Consultant under Clause IV(3) (c) of this Agreement and referred to in Appendix(3) shall be paid 50 per cent in Pounds Sterling to the Consultant's Bank in London and 50 per cent in Rupees to the Consultant's Bank (to be nominated) in India both within 40 days of the submission of the account.

(c). The monthly payments due to the Consultant under Clause IV(3) (c) of this Agreement shall be paid in the proportion laid down in Appendix (3) - the Pound Sterling element to the Consultant's Bank in London and the Rupee element to the Consultant's Bank in India. Monthly payments shall be made within 30 days of submission by the Consultant's senior representative in India of a statement of the members of the supervisory site staff present and amounts due.

(d) Interest at the rate of 5 per cent per anum (calculated daily) shall be added to all payments due to the Consultant but not paid within the periods given in Clause V(a) (b) (c).

All sums due to the Consultant in Sterling shall be calculated using a fixed rate of exchange of 13 1/3 (Thirteen and one third) Rupees to the Pound Sterling.

VI. ADDITIONAL DUTIES:-

Should the Client require the Consultant to undertake additional duties such as advising or assisting in connection with:

(a) The valuation, purchase, sale or leasing of lands or the obtaining of wayleaves

(b) Arbitration or other legal proceedings

then the Consultant shall undertake such duties on terms and conditions to be agreed between the parties.

VII(1) COST OF NEW WORKS:-

(A) For the purposes of ascertaining the remuneration to be paid under Clause IV(1) hereof the cost of the New Works or any part thereof shall be deemed to include:-

(a) the amount certified to Contractors, or the amount certified as the cost of the New Works if carried out by direct labour, of New Works designed, specified or supervised by the Consultant before deduction of liquidated damages or penalties if any.

(b) The market value of any manufactured goods, machinery and second-hand materials incorporated in the New Works.

(c) Construction roads for the gravity main, treatment plants, transmission main and the pumping stations and such office space as may be an integral part of the treatment plants and the pumping stations.

(B) The cost of New Works shall not include the following items:-

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the

construction of the New Works.

(e) Cost of lands and wayleaves, and the Clients' new administration building and housing colonies together with the cost of roads, services and other miscellaneous items to serve the administration building and the housing colonies, representing expenditure not certified to Contractors.

(f) Import duty, customs duty, etc., on imported plant and materials.

(2) ESTIMATED COST OF REMODELLING WORKS:-

The estimated cost shall be as worked out on the basis of the designs and estimates as finally approved and shall be inclusive of all foreseen costs to the Client in carrying out the Remodelling Works, from whatever cause arising, except that the following items shall be excluded from the estimate:-

(a) Administrative expenses incurred by the Client.

(b) Payments made to the Consultant.

(c) Salaries, travelling, out-of-pocket and office expenses of resident site staff.

(d) Interest on capital during construction and the cost of raising moneys required for carrying out the Construction of the Remodelling Works.

(e) Cost of lands and wayleaves, and the Client's new administration building and housing colonies together with the cost of roads, services and other miscellaneous items to serve the administration building and the housing colonies, representing expenditure not certified to Contractors.

(f) Import duty, customs duty, etc., on imported plant and materials.

VIII. CONSULTANT'S TAX LIABILITY:-

The Consultant shall pay all taxes for which he is liable according to the Indian Tax Laws.

IX. SUPERVISION ON SITE:-

The Consultant shall appoint on terms and conditions, subject to the approval of the Client which shall not be unreasonably withheld the following Staff:-

1) One Chief Resident Engineer

2) Four Resident Engineers

for such purposes and for such durations as are considered necessary by the Consultant for the New Works and the Remodelling Works for the discharge of his duties under Clause III(1)c and (2) c. The Client shall be advised of the names and qualifications of the above staff with particular note of their length of employment with the Consultant.

The Client will recommend local suitably qualified Engineers such as Executive and/or Assistant Engineers, Junior Engineers and Supervisors and subject to the approval of the Consultant which shall not be unreasonably withheld, such Engineers will be employed as part of the supervisory staff.

The staff shall take instructions from the Consultant only.

X. ACCESS TO THE NEW WORKS AND REMODELLING WORKS:-

The Client or his nominees shall have access to the New Works at all stages and shall also be given facilities to discuss with the Chief Resident Engineer matters connected with the New Works. Similar access arrangements and facilities shall apply also to the Remodelling Works.

XI. POSTPONEMENT, CANCELLATION OR ABANDONMENT OF THE NEW WORKS AND REMODELLING WORKS OR TERMINATION OF THE AGREEMENT.

In the event of the whole or any part of the above Works being postponed, cancelled or abandoned or of the Agreement being terminated then the payment to be made to the Consultant for services performed in respect of the part of the above Works so postponed, cancelled or abandoned or before termination of the Agreement shall be determined in accordance with Clause IV(1) and (2) and such other Clauses of this Agreement as may be applicable thereto(with such appropriate adjustments as may be necessary having regard to the services performed prior to the works being so postponed, cancelled or abandoned or the Agreement being terminated). Payment under this Clause shall be calculated on the best estimate of the value of the relevant part of the above Works having regard to the services performed prior to its postponement, cancellation or abandonment or the termination of the Agreement. If, at a later date, the above Works which have been postponed, cancelled or abandoned, or any part thereof , are again proceeded with, any payment made under this Clause shall rank solely as a payment on account towards the total fee ultimately payable on such Works and calculated on their actual cost. If the whole of any part of the above Works is postponed and additional services by the Consultant are necessary in connection with the resumption of such Works, a fee additional to the amount payable under Clause IV and other Clauses hereof shall be due, the fee being on an agreed basis.

In the event of the above Works or any part thereof being postponed for a period longer than five years, such Works or part thereof shall be considered to have been abandoned.

XII. DAMAGE OR DESTRUCTION OF THE NEW WORKS:-

If at any time before the completion of the above Works any part of the above Works or the equipment thereof shall be damaged or destroyed by operations of war or other accident, act of God, or other causes beyond the control of the Consultant, the Client shall pay to the Consultant the appropriate fee for any additional works which may be required to be designed and supervised by them as a result of such damage or destruction.

XIII. CARE AND DELIGENCE:-

The Consultant shall exercise all reasonable skill, care and diligence in the discharge of the duties agreed to be performed by him and in so far as any of his duties is discretionary shall act

by him and in so far as any of his duties is discretionary shall act fairly as between the Client and the Contractor or Contractors. The Consultant shall have authority to make minor alterations to design involving minor variations to cost as may be necessary or expedient, but he shall obtain prior approval of the Client to any substantial modification, variation, omission or addition to any Contract.

XIV. INFORMATION TO BE SUPPLIED TO CONSULTANT:-

The Client shall furnish all pertinent data and information and give such assistance as shall reasonably be required for the carrying out by the Consultant of the duties under this Agreement and the Consultant and the Client shall use all reasonable expedition and despatch in carrying out the provisions of this Agreement.

XV. OWNERSHIP OF DOCUMENTS AND COPYRIGHT:-

The Consultant shall be the rightful owner of all documents prepared by him in connection with the New Works but will normally permit the Client to use them elsewhere on request.

XVI. PUBLICITY RELATING TO THE NEW WORKS:-

In cases where notice or display boards are erected on the site, the Consultant shall have the right, if he so elects, to have his name, designation and address inscribed on such board, and to have his name and designation included when commemorative tables or stones are provided in the finished structure. The Consultant shall also have the right, subject to the Client's approval, to publish descriptive articles, with or without illustrations, relevant to the New Works, either on his own account or in conjunction with other parties concerned.

XVII. NON-ASSIGNMENT:-

The Consultant shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof.

XVIII. TERMINATION OF AGREEMENT:

In the event of substantial failure by the Consultant to comply with the terms of this Agreement the Client may terminate the Agreement upon giving the Consultant ninety days written notice. Similarly, the Consultant will have the right to terminate the Agreement, after 90 days notice, in the event of the Client failing to carry out his obligations under the Agreement.

XIX. ARBITRATION:-

Any dispute or difficulty arising out of this Agreement shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

APPENDIX (1)

PAYMENTS UNDER CLAUSE IV(1)

A first payment of £13,000 shall be made 3 months after the signing of this Agreement. The second payment amounting to £26,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less than one-twentieth of the current estimated total fee for the New Works subject to such additions as may be necessary to bring the fees paid in respect of any completed New Works to 2 7/10 per cent of the actual cost thereof.

APPENDIX (2)

PAYMENTS UNDER CLAUSE IV(2)

A first payment of £7,500 shall be made 3 months after the signing of this Agreement. The Second payment amounting to £15,000 shall be made 9 months after the signing of the Agreement.

Thereafter payments shall be made quarterly and shall be not less then one-eigth of the current estimated total fee for the Remodelling Works.

An amount of 10% of the estimated total fee shall be retained subject to a maximum amount of £6,000, and this amount shall be paid when the Consultant has discharged his duties under Clause II(2)C.

APPENDIX(3)

(a) PAYMENTS UNDER CLAUSE IV(3) (c)

Category	Desctiption	Minimum Experience	Total monthly charges Rupees Plus Pound Sterling	Payable in Rupees	Payable in Pounds Sterling
		in years	in Rs.	in Rs.	in £
	Expatriate Staff				
E.1	Chief Resident Engineer and/or Representative	15	,000	5,500	2,500
E.2	Resident Engineer	7	,250	4,250	2,000
	Locally Engaged Staff.				
L.1	Executive Engineer	X			
L.2	Assistant Engineers	X	The Mysore Government's scales of pay applicable to the different categories of staff, together with the deputation and other allowances as may be decided upon in consultation with the Client.		
L.3	Junior Engineers	X			
L.4	Supervisors	X			
L.5	Chief Clerk	X			
L.6	Clerks	X			
L.7	Drivers	X			
L.8	Laboratory Assistants	X			
L.9	Survey Assistants	X			
L.10	Office Boys and Cleaners	X			

(b) The above monthly charges are inclusive and, in the case of expatriate staff, are payable to the Consultant from the date of arrival in India to the date of departure from India upon completion of duties. Periods of less than a month shall be charged pro rata. No deductions shall be made for absence from site on duty or on leave in India or for national or religious holidays.

(c) Staff who have to leave the site due to sickness, leave or unsuitability will be replaced by the Consultant at the appropriate rate of charging.

PAYMENTS:

(a) An advance payment of 60,000 rupees, payable 50% in pounds sterling and 50% in rupeesp shall be made upon the arrival of the first member of the Consultant's expatriate resident site staff in India and this will be offset against the Consultant's account in twelve equal instalments commencing twelve months after the date of advance payment.

(b) Payments shall be made monthly upon submission of the Consultant's account.

APPENDIX(4)

DESCRIPTION OF CONSULTANT'S DUTIES

A. WATER SUPPLY AND SEWAGE TREATMENT:

1. Review the design of the New Works by appraising basic data and assumptions, investigating likely alternatives, confirming or changing the design decisions already taken, and preparing preliminary plans, estimates, and schedules of construction. A functional design report with this information, and noting any matters needing special attention in the specifications, shall be submitted to the Client for securing the formal approval of the appropriate Government Department or other authority.

a. Specific consideration shall be given to the economical pipe diameter, number and location of pumping stations, protection against water surge, mixing, flocculating and settling methods, filter rates, and general hydraulic flow considerations within the city(this last in conjunction with the functional design of the water distribution portion).

b. For sewage treatment, evaluate the effluent criteria which should be met at present and in the future, and recommend a program of sewage treatment facilities to achieve the criteria.

II. Carry out the detailed design and prepare the tender documents, including necessary construction drawings. Prequalify tenderers as required, evaluate bids, recommend awards and prepare contracts.

III. Administer the construction program, co-ordinating, planning, and reporting by critical path techniques, and continuously supervise the technical goodness of the construction.

B. WATER DISTRIBUTION AND SEWERS:

For the water distribution and sewerage systems, review the planning, consider alternatives and confirm or modify the design decisions taken. In both cases, functional design reports shall be prepared in sufficient detail to fix the major elements, and to indicate the manner and details of the design of these and the minor elements. In the water distribution, this work shall include an examination of the flow and pressure characteristics of the existing and proposed remodelled distribution systems. They shall also include outline estimates and indicate the form and content of the detailed specifications to be drawn up and the construction schedules, emphasising matters needing special attention therein. The functional design reports shall be submitted to the Client for securing the formal approval of the appropriate Government Department or other authority.

C. PROGRAM:

A Schedule for the presentation of the first draft of the functional design reports and, following final approval of the water supply report, completion of the detailed design and tender documents shall be worked out with the client to enable the Client to secure the formal approval of the appropirate Government Department or other authorit as early as possible.

STATE EXPRESS TELEGRAM

Ch/694

CHANDAPPA PATEL
WORK SEC
BANGALORE

KINDLY EXPEDITE RETURN DRAFT CONSULTANCY AGREEMENT BANGALORE WATER SUPPLY SCHEME SENT BY NORRIS ON MARCH 25 STOP IMMEDIATE ACTION NECESSARY AS MATTER ALREADY DELAYED STOP PLEASE ALSO WIRE PRESENT POSITION AMENDMENT STATUTE AND INCREASED WATER CHARGES STOP

VENKATARAMAN
ECOFAIRS

MYSORE No 808 7 APR 1965 O. (RECEIPT & ISSUE)

Not to be telegraphed.

PUBLIC WORKS & ELEC. DEPT. To 620 6 - 1965

(M.K. Venkataraman)
Under Secretary
Ministry of Finance
Department of Economic Affairs

12(60) 65-FB. April 3, 1965

1) Post copy forwarded in confirmation to Shri Chandappa Patel, Secretary to the Government of Mysore, Public Works and Electricity Department, Vidhana Soudha, Bangalore. It may be recalled that the draft consultancy agreement was discussed in detail between Mr. Norris of Binnie & Partners and the representatives of Mysore Government, Shri S. Rajagopalan of the D.G.H.S. and the undersigned. As the draft has been agreed to by ~~the~~ all concerned and requires only formal approval of the Government of Mysore, it may kindly be returned immediately with such approval for onward transmission to the IDA, Washington for their final concurrence. When Mr. Votaw was here last, he was expecting that the draft agreement would reach Washington by the end of March or the first week of April. Immediate action in the matter will, therefore, be highly appreciated.

(Two copies of the draft were sent by Mr. Norris to you for approval on March 25, 1965.)

2) Copy also forwarded for information to Shri S. Rajagopalan, D.D.G. (P.H.E.), Office of the D.G.H.S., Patiala House, New Delhi.

(M.K. Venkataraman)
Under Secretary to the Government of India.

Copy of letter No.PJN/382, dated 4th March 1965 from M/S Binnie & Partners, Artillery House, Artillery Row, Westminister, London - S.W.1, addressed to Mr. Chandappa Patel, I.A.S., Secretary to Government of Mysore, Public Works & Electricity Dept., "Vidhana Soudha", Bangalore-1.

Bangalore Water Supply & Sewerage Project.

We assume you have already received a copy of the International Development Association's letter to us of 26th February and the Comments referred to therein.

In case you have not a copy is enclosed, together with a copy of our reply of today's date.

You will observe that we have also sent a copy to Mr. Rajagopalan and we hope this is correct; the International Development Association mention having forwarded their Comments to the Government of India and the Bangalore Water Supply and Sewerage Board.

// COPY //

Copy from Binnie & Partners,
Artillery House, Artillery Row,
London, S.W.1.

BJH/382
4th March, 1965.

W.J.Armstrong, Esq.,
Assistant Director - Industry
Projects Department,
International Development Association,
1818 H.Street, N.W.,
Washington, D.C.20433,
U.S.A.

Dear Mr.Armstrong,

Bangalore Water Supply and Sewerage Project.

We thank you for your letter of 26th February with enclosed comments on our draft Agreement with the Bangalore Water Supply and Sewerage Board.

We appreciate the helpful nature of your comments, many of which refer to financial liabilities which we could have overlooked. As we explained on the telephone, however, they have all been carefully considered and the comments you have made in nearly every case reflect the true intention of the Agreement.

We give below our observations using, for convenience, the same numbering as in your list of comments:

1. The duties as described by you are exactly in accordance with those envisaged by ourselves, and in our opinion they are already described in sufficient detail in the Clause covering the Duties of the Consultant. We would nevertheless be quite agreeable to these being given further emphasis in either of the forms mentioned by you if this is considered to be desirable. At this stage we would prefer not to be committed to the use of a computor for the water distribution network analysis, although we shall use this method if it is considered at the time to provide the most satisfactory and economical means of obtaining the information required.

2. Agreed.

3. This was discussed with the Client's representatives at some length during the preparation of the draft Agreement, and it was decided that no provision for termination of the Agreement need be made. We do not feel strongly about this, however, and would be quite prepared to have a paragraph added to clause 10 reading:

   "In the event of the above Works or any part thereof being postponed for a period longer than five years, such Works or part thereof shall be considered to have been abandoned".

4. This is a standard clause in the Model Form of Agreement of our Association of Consulting Engineers and we should prefer it to be retained. We would not like to think that any documents prepared by us for this project might be used, without reference to us, on another project where the technical and other considerations may differ.

5. Agreed.
6. Agreed.
7. This was intended, but as you have found some ambiguity in the wording it should perhaps be worded more clearly.
8. Clause 3(d) appears to cover the question of office accommodation on the lines suggested in your comment. The words "and local transportation" could conveniently be inserted after site offices in this Clause if that is agreeable to the Client, but we must make it clear that the transportation allowances for our expatriate staff employed on the site supervision of construction are included in the monthly charges given in Appendix (3). Clause II(1) (A) (b) provides for the Client to carry out or pay for additional field surveys, special investigations etc. and we do not require any other services or facilities to be provided by the client.
9. Our fees and monthly charges will be inclusive of all out-of-pocket expenses and the costs of travel and accommodation for our staff and their dependents.
10. We have made ourselves familiar with the tax position in India and we are aware that we will be liable for payment of all tax in accordance with the laws of the country. In order to simplify the assessment of income tax we are forming a separate organisation for carrying out this project and any further work in India. We wrote to the Client on 10th February mentioning this arrangement and emphasised that our professional obligations will in no way be affected.
11. Agreed.

We appreciate the kind remark in the last sentence of your letter which we are pleased to reciprocate.

Yours truly,

BINNIE & PARTNERS.

// C O P Y //

[illegible] W.J. Armstrong, Assistant Director, Industry Projects Department, International Development Association, 1818 H.Street, N.W.Washington, D.C.20433, U.S.A., addressed to Mr. T.J.Norris Binnie & Partners, Artillery House, Artillery Row, Westminister S.W.1, London, England.

We have received the draft Memorandum of Agreement between your firm and the Bangalore Water Supply and Sewerage Board from the Government of India for review and comment.

Following the telephone conversation between you and Mr.Morse of February 18, 1965, we have prepared the attached Comments. These are being forwarded to the Government of India and the Bangalore Water Supply and Sewerage Board.

The Comments include some of the items which Mr.Morse asked you about, and which you indicated were not expected to be a problem and / or were contained in your fee, such as, the provision of office space, local transportation, transportation of staff, and the like. Nevertheless, we thought it wise to mention them as a matter of record. Of particular importance is the position on taxes, discussed in paragraph 10.

A matter which was not noted in the attached Comments is the lack of a time clause in the Memorandum of Agreement. We understand that, should the project take more time than is now anticipated, your firm would continue to provide the required assistance as long as necessary against the payment of the fees set out in Appendix (3).

The Comments make other points which were not mentioned to you, see especially paragraphs 2, 3 and 4.

We would be pleased to have any remarks you might care to make on our Comments. We look forward to a close and continuing relationship with your firm on this project.

COMMENTS ON THE DRAFT MEMORANDUM OF AGREEMENT BETWEEN THE BANGALORE WATER SUPPLY & SEWERAGE BOARD AND BINNIE & PARTNERS CONSULTING ENGINEERS

1. The duties of the Consultant follow, in a modified and limited manner, the Model Form of Agreement "A" of the Association of Consulting Engineers' Conditions of Engagement and Scales of Fees, dated March 1, 1963. Because of the omission of certain clauses of the Model Form of Agreement, and to ensure that all parties understand the scope of work required, something like the following description of the Consultant's responsibilities should be included in the Memorandum of Agreement or in a separate Letter of Intent, in addition to the obligations already contained in the Memorandum:

A. Water Supply and Sewage Treatment:

i. Review the design of the new works by appraising basic data and assumptions, investigating likely alternatives, confirming or changing the design decisions already taken, and preparing preliminary plans, specifications, estimates, and schedules of construction. A functional design report with this information would be prepared for approval by the Client and the International Development Association.

a. Specific consideration should be given to the economical pipe diameter, number and location of pumping stations, protection against water surge, mixing flocculating and settling methods, filter rates, and general hydraulic flow considerations within the city (this last in conjunction with the functional design of the water distribution portion).

b. For sewage treatment, evaluate the effluent criteria which should be met at present and in the future, and recommend a program of sewage treatment facilities to achieve the criteria.

ii. Carry out the detailed design and prepare the tender documents, including necessary construction drawings. Prequalify tenders as required, evaluate bids, recommend awards, and prepare contracts.

iii. Administer the construction programme, coordinating, planning, and reporting by critical path techniques, and continuously supervise the technical goodness of the construction.

B. Water Distribution Sewers

For the water distribution and sewerage systems, review the planning, consider alternatives, and confirm or modify the design decisions taken. In both cases, functional design reports should be prepared in sufficient detail to fix the major elements, and form the detailed design of these and the minor elements. They should also include outline estimates,

specifications, and construction schedules. In the water distribution, this work would include a network analysis of the major supply and storage elements by computer. The functional design reports would be submitted to the Client and to the International Development Association for comment and approval.

2. A schedule for the presentation of the first draft of the functional design reports and, following final approval of the water supply report, completion of the detailed design and tender documents should be worked out with the Client and submitted to the Association for comment as early as possible.

3. There is no provision for termination of this contract. Provision for termination of the contract by one of the parties, with adequate notice, seems only prudent.

4. Deletion of Section XIV, Ownership of Documents and Copyright is suggested. The Client might wish to utilise these documents for the construction of the second transmission main. Moreover, the Client may find it useful to use, or to make available to others, all or parts of the documents. As it is hoped that the technical details of this project will be of educational value, the Association would not wish to see this opportunity unnecessarily restricted, in this case. Incidentally, the U.S.Government normally requires that ownership of the documents vests in the Government.

5. Clause II(C) (b) (iv) should be broadened to include the inspection and testing of all materials, equipment and plant as, in the Consultant's opinion, would be appropriate. In this section a clause should be added stating, "Performing any duties which the Consultant may be required to carry out under any contract for the execution of the works - provided that they shall have first approved that contract".

6. Paragraph IX, Access to the New Works, should be modified to include the Remodeling works as well.

7. The cost of new works (VII (1) is defined to exclude office buildings, roads and communications, services and other miscellaneous items which do not form a part of the new works. Construction roads for the gravity main, treatment plant, transmission main, and the pumping stations and such office space as may be an integral part of the treatment plant and the pumping stations should be included. This is necessary to conserve the unity of responsibility for these elements. The Water Board's new administration building and all the housing colonies would be excluded.

8. The obligation of the Client to provide office space, local transportation and other services or facilities, should be spelled out. Specific mention should be made of all such services to be provided, even though they may be well understood. A provision might also be included whereby the consultants would provide themselves with such services, should the Client not do so, and the Consultant would be reimbursed the costs by the Client.

9. There is no mention made of reimbursement to the consultants for such out-of-pocket, expenses as printing and reproduction of maps, telegrams, telephone calls, etc. Are these costs, and the costs of travel and accommodation for the Consultant's staff and their dependents, included in the fees?

10. Does the Consultant understand which taxes apply to work under this contract; such as income taxes on employees working in India and on the earnings of the Consultant and import limitation and / or duties on personal and household effects of these employees and on the equipment of the Consultant. No mention is made of these items in the Agreeme and such payments as may accrue would, in absence of any permission to the contrary, not be reimbursed to the Consultan

11. In respect of the resident engineers, the Association would expect to be advised of the names and qualifications of the individuals to be assigned, with particular note of their length of employment with the Consultant.

455

Partners:-
BINNIE M.A., M.I.C.E., M.I.W.E., F.G.S., F.ASCE., M.E.I.C.
G. HETHERINGTON O.B.E., M.A., M.I.C.E., M.I.W.E.
T. GERRARD B.Sc.(Eng.), M.I.C.E., M.E.I.C.
J. NORRIS M.I.C.E., M.I.W.E., M.R.S.H., A.M.I.S.P.
V. C. PHILLIPS M.C., M.A., A.M.I.C.E., A.M.I.W.E.
E. H. FORD M.C., M.A., M.I.C.E., M.I.W.E.
G. ELDRIDGE B.Sc.(Eng.), A.M.I.C.E.
S. HARDY C.B.E., B.Sc.(Eng.), M.I.C.E.
MEMBERS OF THE ASSOCIATION OF CONSULTING ENGINEERS
Consultants:-
G. A. R. SHEPPARD M.A., M.I.C.E., M.I.W.E., M.Cons.E.
A. RYLANDS THOMAS O.B.E., B.Sc.(Eng.), M.I.C.E., F.ASCE.
Associates:-
A. L. LITTLE B.Sc.(Eng.), M.I.C.E., M.I.Struct.E.
C. F. COLEBROOK T.D., Ph.D., B.Sc.(Eng.), M.I.C.E., M.I.W.E.
A. C. BUCK M.Sc.(Eng.), M.I.C.E., M.N.Z.I.E.
D. M. WILLIAMS M.A., M.I.C.E.
T. G. HAMMOND M.B.E., M.I.C.E., M.I.W.E.
A. C. TWORT B.Sc., M.I.C.E., M.I.W.E
Secretary:-
COL. R. A. BISHOP

BINNIE & PARTNERS
CHARTERED CIVIL ENGINEERS
ARTILLERY HOUSE · ARTILLERY ROW
WESTMINSTER · LONDON · S.W.1
Telephone: ABBEY 6841-5
Telegrams: ARBINTRO, LONDON, S.W.1.
Telex: 24552

YOUR REF. PWD 141 GTW 62

OUR REF. PJN/382

3rd May, 1965

Mr. Chandappa Patel, IAS,
Secretary to the Government of Mysore,
Public Works and Electricity Department,
Vidhana Soudha,
Bangalore,
India.

SECRETARY TO GOVERNMENT
No. 660.
6 MAY 1965
PUBLIC WORKS & ELEC. DEPT.

Dear Sir,

Bangalore Water Supply and Sewerage Project

As we have heard nothing since Mr. Norris's return to this country it has occurred to us that you may be waiting for our suggestions in regard to the two outstanding matters raised by the International Development Association in their letter of 17th March which have not so far been covered in the modified Draft Agreement. This was due to the letter from the International Development Association being received by us after Mr. Norris had left for Bangalore.

In case this should be the position we are writing to say that we would have no objection to the following further amendments being made to the Draft Agreement: -

(1) Add to the third sentence of Appendix (4) B

"... by computer analysis."

(2) Add to the second sentence of clause XI

"... and the minimum fees referred to in Clause IV shall not apply."

ARTILLERY HOUSE, ARTILLERY ROW, LONDON, S.W.1.

Mr. Chandappa Patel, IAS

3rd May, 1965

In order to minimise any further delay in this matter, we are sending copies of this letter to both the International Development Association and Mr. Rajagopalan.

Yours faithfully,
BINNIE & PARTNERS

c.c. Mr. Rajagopalan
International Development Association

LD.

To

M/s. Binny & Partners,
Artillery House, Artillery Row,
Westminister, LONDON, S.W. 1.

Sir,

SUB: Bangalore Water Supply & Sewerage Project - Additions to the draft agreement.

I am directed to refer to your letter No. PJN/382 dated 3rd May, 1965 on the above subject, stating that you have no objection to the following further amendments being made to the draft agreement;

(1) Add to the third sentence of Appendix (4) E

"... by computer analysis."

(2) Add to the second sentence of clause XI.

"... and the minimum fees referred to in Clause IV shall not apply."

and to state that the State Government have accepted the amendments.

Mr. M.K. Venkataraman, Under Secretary to the Govt. of India, Ministry of Finance and Mr. S. Rajgopalan, Deputy Director General, Public Health Engineering, Ministry of Public Health, Govt. of India, New Delhi have been informed of the above additions to the draft agreement and conveyed the State Govt's. acceptance to these additions.

Y/f.,

Issued
Dated 18/5/65

D.S. 17/5/65
S.O. to Govt., P.H. & E. Dept.

Copy with a copy of letter No. PJN/382 dated 3-5-65 received from M/s. Binny & Partners is forwarded in continuation of the State Govt. No. PWD 141 GTW 62 dated 5-4-65.

PTO.

1) Sri V.K. Venkataraman, Under Secretary to Govt. of India, Ministry of Finance (Dept. of Economics Affairs), New Delhi.

2) Sri S.Rajagopalan, Deputy Director General ~~of Health~~ Public Health Engineering, Ministry of Public Health, Govt. of India, New Delhi

3) The Chairman, Bangalore Water Supply & Sewerage Board, Bangalore.

opy to Mr. W.J. Armstrong, Projects Dept., International Development Association, 1818 H. Street, N.W.Washingto D.C.20433, U.S.A. for information, along with a copy of letter No. PJN/382 dated 3-5-65 from M/s. Binny & Partners, London, United Kingdom.

17/5/65

D.S. to Govt., P.W. & E. Dept.

Serial No.

During my recent visit to Delhi, I made an enquiry with Shri M.K.Venkataraman, Under Secretary to the Govt. of India, (Department of Economic Affairs), Ministry of Finance. He gave me to understand that the draft consultancy agreement had been forwarded to the World Bank whose concurrence was awaited.

As regards the draft amendments to the Water Supply and Sewerage Act, ~~was~~ (the proposals were) under consideration of the Finance Ministry in consultation with the Law Ministry and that as soon as the examination was over, it would be sent to the World Bank for their formal concurrence. Shri Venkataraman also said that it would take about a month or so before these aspects could be finalised and the discussions regarding the loan could be commenced.

Chandappa 27/4/

(Chandappa Patel)
Secretary, P.W. & E.Dept.

Deputy Secy. (I)

SECRETARY TO GOVERNMENT
No. 8806
27 APR 1965
PUBLIC WORKS & ELEC. DEPT.

Sp I Salon
28/4/65 29.4.65

M.

MYSORE GOVT. SECRETARIAT
No 243/ID/65
29 APR 1965
PWD (SPECIAL IRRIGATION)

Note.—Contn. Sheet

This may be placed on the relevant file. 15th 1.65

No. 90
16 JAN 1965
T/104
WTRS & ELEC. DEPT.
456

OPINION

There is nothing to prevent the amendment of section 23 of the Bangalore Water Supply and Sewerage Act, 1964. As has been suggested, i.e., item (x) of sub-section (1) of Section 23 can be changed so as to provide for expenditure on improvement works and sub-section(2) can be changed so as to add the words "which are not improvement works" at the end of that sub-section. The idea is apparently that expenditure on capital works other than improvement works might make the Board a trading corporation and that the amendment in sub-section (1) would correspondingly enable expenditure to be made on capital works in the nature of improvement which would not turn the Board into a trading corporation. Such amendments would correspond with the oral opinion given by the late Solicitor-General.

2. I see some little difficulty in reconciling this with the embargo in sub-section(2) on augmenting the reserves of the Board. Reserve Funds may be of various kinds and one reserve may be for the purpose of expenditure at some suitable time on improvement works. It is difficult to see how without a reserve fund which may be specially earmarked only for that particular purpose a surplus can be accumulated. Since improvement works cannot be undertaken day by day money would have to be gathered together over a period for making improvement works. This would in fact constitute a reserve for the purpose though it may not be named as such. The surplus therefore from time to time would go to augment the reserve although the object of the reserve may be one, i.e., for capital works in the nature of improvement. What probably the Solicitor-General meant was that it would do to put the surplus into a general or unspecified reserve. It may therefore be considered whether in sub-section(3) the words "other than a reserve for improvement works" should be inserted after the words "reserves of the Board".

Spl I Section
16/1/65
Sol. M.

New Delhi
Nov.12,1964

(C.K.Daphtary)
Attorney-General

Diary No 1039/S-pl.

141 GTW/63

The main file No PWD 13 LW 564 has been ~~sent to P&H dept on~~ submitted to the S-ary. on 12-5-65 ~~15-5-65~~. This may be placed in the file after its return.

Nleasm 18/5 18/5

8/ 19/5/65

PHONE No. 27781

ATER SUPPLY AND SEWERAGE BOARD.

AMY, I.A.S.,
CHAIRMAN

M.G.I.D. BUILDING (ANNEXE)
BANGALORE-1,

MYSORE SECT. No. 1039 13 MAY 1965 P.W.D. (RECEIPT & ISSUE SEC.)

No. BWSSB: 650/65

Date....13th May.....1965.

Dear Shri Sundararajan,

Subject: Proposed amendments to the Bangalore Water Supply and Sewerage Act.

I have just received the marginally noted telegram dated 11-5-1965, from Shri Natarajan, Ministry of Finance, Department of Economic Affairs, Government of India and I forward herewith, two copies of the proposed amendments accordingly.

> GX 22QQDA 1293 NEW DELHI S N
> 1QSTE 6Q NARAYANASWAMY CHAIRMAN
> BANGALORE WATER SUPPLY AND SEWERAGE
> BOARD BANGALORE = IDA HAS APPROVED
> DRAFT AGREEMENT PROPOSED TO BE
> ENTERED INTO WITH BINNIE AND
> PARTNERS (.) PARA TWO (.) KINDLY
> AIRMAIL TO SUNDARARAJAN EXECUTIVE
> DIRECTOR BANK TWO COPIES OF
> AMENDMENTS TO THE BANGALORE WATER
> SUPPLY AND SEWERAGE BILL 1964
> UNDER INTIMATION TO US (.) --
> NATARAJAN ECORAIRS -

I had informed Mr.Gregory Votaw in my letter dated 20-4-1965 that the said amendments had been finalised and were being forwarded by the State Government to the Finance Ministry, Government of India for scrutiny and forwardal to the World Bank. They were sent accordingly on 21-4-1965, by the Secretary to Government, Public Works Department (Mysore), to the Finance Ministry, Government of India.

It is likely that the concerned Ministries of the Government of India have completed scrutiny and the above telegram asking me to send copies direct to you, has been issued with a view to expedite matters.

Trust this finds you in excellent health.

Yours sincerely,

Sd./-

Shri K.S.Sundararajan,
Executive Director for India,
International Bank for Reconstruction
and Development,
Washington D.C. 20433.

Copy to the Secretary to Government, Public Works & Electricity Dept. for information. This is with reference to Letter No.PWD 13 LWS 64, dated 21-4-65 addressed by the Secy. to Govt.,P.W.D. (Mysore), to the Under Secretary to Government of

P.T.O.

Government of India, Ministry of Finance,
Department of Economic Affairs, New Delhi.

CHAIRMAN,
BANGALORE WATER SUPPLY &
SEWERAGE BOARD.

460

GRAMS: "WATERSUP" BANGALORE

PHONE No. 27781

BANGALORE WATER SUPPLY AND SEWERAGE BOARD.

K.NARAYANASWAMY, I.A.S.,
CHAIRMAN.

M.G.I.D. BUILDING (ANNEXE)
BANGALORE-1,

No. BWSSB: 752/65

Date...20th May.....1965.

Dear Shri Natarajan, Immediate

1091
22 MAY 1965

Subject: Bangalore Water Supply and Sewerage Project - Consultancy Agreement with M/S Binnie & Partners, London.

I hope you have received my D.O. letter No.BWSSB: 65/65, dated 13th May 1965 in reply to your Telegram dated 11-5-1965 on the above. I have checked up at the Public Works Dept. Secretariat, Government of Mysore and it is learnt that no formal communication has been received from the Finance Ministry, Government of India, conveying approval of the World Bank in respect of the above Consultancy Agreement.

Since you have mentioned in your telegram that the I.D.A. has approved the same, I will be grateful if you can kindly send a formal communication to the Public Works Department Secretary to the Government of Mysore, in reply to his D.O. letter No.PWD 141 GTW 62, dated 5-4-1965 on the above subject.

Addition of a few words in ~~clauses~~ Appendix 4(B) and Clause 11 as proposed by the World Bank, have been accepted by Messrs Binnie and Partners, London and action can be taken to incorporate this addition of few words in due course as per Mysore Public Works Department's letter No.PWD 141 GTW 62, dated 18-5-1965 addressed to M/S Binnie and Partners, London and copied to you.

Thanking you for favour of very early action.

Yours sincerely,

Sd./-

Shri V.Natarajan,
Under Secretary to the Govt. of India,
Ministry of Finance (Dept. of
Economic Affairs),
NEW DELHI.

Copy forwarded to the Secretary to Government, Public Works & Electricity Dept.,"Vidhana Soudha",Bangalore-1, in continuation of his office letter No.BWSSB:650/65, dated 13-5-65 addressed to Shri K.S.Sundarajan,Executive Director for India, International Bank for Reconstruction & Development,Washington-D.C.20433 and copied to him.

CHAIRMAN.

Subject:- Langolne water Supply and Sewerage project — Consultancy Agreement with M/S. Binnie and Partners. London.

To

Mr Ashok Bombawale
Director - In world Bank
Loan in
the Ministry of Finance
Govt of India
New Delhi.

Sir,

I am directed to inform you. ~~I wish to recall to the discussions that the~~ ~~I had with you in regard to Consultancy Agreement with Messrs Binnie and Partners during my stay at New Delhi in the last week of March 1985.~~

~~The~~ draft agreement with certain modifications as agreed to by Messrs Binnie & partners has been duly communicated to Govt of India in the Ministry of Finance vide GOMS 141 dated 5-4-85 for favour of processing to enable further in consultation with the world Bank authorities.

It is hoped that the concerned ministries of the Govt of India have

Completion, scrutiny and for-
ward to the World Bank
authorities conveying their approval.
It is also likely that the I.D.A.
have approved the same by now.

It would be greatly helpful if you can
kindly apprise me with the present
position so that I may take
further necessary action in this regard.

With thanks & warm regards
yours sincerely. Manmohan.

3.7
27/5/65
DS.
Sd/ Nirula Dyer

N

Copy to the Chairman, S.B.O.S. & S. Bd
Please be informed.
27/5/65

Subject:- Bangalore water Supply and Sewerage project — Consultancy Agreement with M/S. Binnie and Partners. London.

To

Mr Ashok Bombawale
Director - In World Bank
Loan in
the Ministry of Finance
Govt of India
New Delhi.

Sir,

I am directed to inform you that the draft agreement with certain modifications as agreed to by Messrs Binnie & partners has been duly communicated to Govt of India in Cab. secy/MDS/41/87 dated 5-6 Ministry of Finance for favour of necessary action in consultation with the concerned Bona authorities.

It is hoped that the concerned ministries of the Govt of India, have

GOVERNMENT OF MYSORE

No. PWD.141 GTW-62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 27 May 1965

FROM

The *Secretary to the Government of Mysore,*
P.W.& Electricity Department,
Bangalore.

To

Mr. Ashok Bombaywala,
Director for World Bank Loan
in the Ministry of Finance,
Government of India,
NEW DELHI.

Sir,

Sub:-Bangalore Water Supply and Sewerage Project - Consultancy Agreement with M/s.Binny & Partners, London.

I am directed to inform you that draft agreement with certain modifications as agreed to by Messrs.Binny & Partners has been duly communicated to Govt. of India in the Ministry of Finance in Govt.letter No.PWD 141 GTW 62 dated 5-4-65 for favour of processing the matter further in consultation with the World Bank authorities.

It is hoped that the concerned Ministries of the Govt. of India have completed scrutiny and have also forwarded to the World Bank authorities conveying their approval. It is also likely that the I.D.A. have approved the same by now.

I will be grateful if you can kindly appraise me with the present position so that further needful action may be taken in this regard.

Yours faithfully,

ISSUED
Dated 27/5/65

Sd/- (M.Channappa)
DEPUTY SECRETARY TO GOVT.
PUBLIC WORKS DEPTT.(IRRGN.)

Copy to the Chairman, Bangalore Water Supply & Sewerage Board, Bangalore, for information.

M Channappa 27/5/65

(M.Channappa)
Deputy ~~xxxxPublicxWorkxx~~ Secretary to Govt.
Public Works Department (Irrigation).

GOVERNMENT OF MYSORE

No. PWD.141 GTW-62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, ...May..... 1965.

FROM

The *Secretary to the Government of Mysore,*
P.W.& Electricity Department,
Bangalore.

To

Mr. Ashok Bombaywala,
Director for World Bank Loan
in the Ministry of Finance,
Government of India,
NEW DELHI.

Sir,

Sub:-Bangalore Water Supply and Sewerage Project - Consultancy Agreement with M/s.Binny & Partners, London.

I am directed to inform you that draft agreement with certain modifications as agreed to by Messrs.Binny & Partners has been duly communicated to Govt. of India in the Ministry of Finance in Govt.letter No.PWD 141 GTW 62 dated 5-4-65 for favour of processing the matter further in consultation with the World Bank authorities.

It is hoped that the concerned Ministries of the Govt. of India have completed scrutiny and have also forwarded to the World Bank authorities conveying their approval. It is also likely that the I.D.A. have approved the same by now.

I will be grateful if you can kindly appraise me with the present position so that further needful action may be taken in this regard.

Yours faithfully,

Sd/- (M.Channappa)
DEPUTY SECRETARY TO GOVT.
PUBLIC WORKS DEPTT.(IRRIGN.)

Copy to the Chairman, Bangalore Water Supply & Sewerage Board, Bangalore, for information.

(M.Channappa)
Deputy ~~xxxxxxxxxxxxxx~~ Secretary to Govt.
Public Works Department (Irrigation).

464

IMMEDIATE

No.F.12/60/65-F.B.
Government of India
Ministry of Finance
(Department of Economic Affairs)

New Delhi, the 26th May, 1965.

To:

The Secretary to the Govt. of Mysore,
The Public Works & Electricity Department,
Mysore Government Secretariat,
Vidhana Soudha,
Bangalore-1.

Subject: Bangalore Water Supply and Sewerage Project - Consultancy Agreement with M/s. Binnie and Partners, London.

MYSORE GOVT. No 1136 29 MAY 1965 P.W.D. (RECEIPT & ISSUE)

Sir:

I am directed to refer to your letter No.PWD-141-GTW/62 dt. 18.5.1965 and to state that the International Development Association have already approved the draft agreement with M/s. Binnie & Partners. This approval by the I.D.A. has already been communicated to the Chairman, Bangalore Water Supply & Sewerage Board.

Yours faithfully,

V. Natarajan
(V. Natarajan)
Under Secretary to the Government of India.

Subd for kind perusal in Tappal stage 29/5

M/s Binnie & partners may be informed of this approval & Board apprised

Letter see this dept dt 31.5.65

29/5

465

.PWD 141 GTW.62

To

M/s.Binny & Partners,
Artillery House,
Artillery Row,
West Minister,
LONDON,S.W.1.

Sirs,

Sub:-Bangalore Water Supply and Sewerage Project - Consultancy agreement with M/s.Binny & partners,London.
--

Please refer to this State Govt.letter No.PWD 141 GTW 62 dated 18-5-1965 on the above subject, wherein the acceptance of the State Govt. to the additions proposed to the draft agreement was conveyed to you and also to the Govt. of India,Ministry of Finance,

The Govt. of India, in the Ministry of Finance (Deptt. of Economic Affairs) in their communication No.F.12/60/65-F8 dated 26-5-65 (copy enclosed) have ~~since~~ intimated that the International Development Association have approved the draft agreement to be entered into with your firm.

I request you kindly to take further needful action in this regard.

The favour of reply is requested.

Yours faithfully,

8/6/65

D.S.(Irrgn.)

Copy with a copy of Govt.of India's letter is forwarded to the Chairman, B.W.S.&S.Bd. Bangalore, for information.

copy to the V.S. Min. of Finance G.O.I. w.r.t. their letter no F.12/60/65-F8 dated 26-5-65 for information

465
/

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

FROM

Dated, Bangalore, ..9-6-...1965.

Secretary to the Government of Mysore,
Public Works Department, Bangalore.

To

M/s. Binny & Partners,
Artillery House,
Artillery Row,
West Minister,
LONDON, S.W.1.

Sirs,

Sub:-Bangalore Water Supply and Sewerage Project - Consultancy agreement with M/s. Binny & Partners, London.

Please refer to this State Government letter No.PWD 141 GTW 62 dated 18-5-1965 on the above subject, wherein the acceptance of the State Government to the additions proposed to the draft agreement was conveyed to you and also to the Government of India, Ministry of Finance.

The Government of India, in the Ministry of Finance (Department of Economic Affairs) in their communication No.F.12/60/65-FB dated 26-5-1965 (copy enclosed) have intimated that the International Development Association have approved the draft agreement to be entered into with your firm.

I request you kindly to take further needful action in this regard.

The favour of reply is requested.

Yours faithfully,

(M.CHANNAPPA),
DEPUTY SECRETARY TO GOVERNMENT,
PUBLIC WORKS DEPARTMENT(IRRIGATION).

Copy with a copy of Govt. of India's letter is forwarded to the Chairman, Bangalore Water Supply and Sewerage Board, Bangalore, for information.

Copy to the Under Secy. Ministry of Finance, Govt. of India, with reference to their letter No.F.1/2/60/65, F.B. dated 26-5-1965 for information.

9/6/65

Dy. Secy. to Govt. PWD.

IMMEDIATE

No.F.12/60/65-F.B.
Government of India
Ministry of Finance
(Department of Economic Affairs)

New Delhi, the 26th May, 1965.

To

The Secretary to the Govt. of Mysore,
The Public Works & Electricity Department,
Mysore Govt. Sectt. Bangalore-1.

(2)

Sub:-Bangalore Water Supply and Sewerage Project-
Consultancy Agreement with M/s. Binnie and
Partners, London.

Sir,

I am directed to refer to your letter No.PWD-141-GTW/62 dated 18-5-1965 and to state that the International Development Association have already approved the draft agreement with M/s. Binnie and Partners. This approval by the I.D.A. has already been communicated to the Chairman, Bangalore Water Supply and Sewerage Board.

Yours faithfully,

Sd.
(V.Natrajan)
Under Secy. to Govt. of India.

Copy

For secy to govt
PWD

Subject:- PI on page 465/, of C.O.P.)

To

Sri. S. Rajagopalan
Deputy Director General Public
Health Engineering
Ministry of Public Health
Govt of India
New Delhi.

Sir,

P 456 of C.O.P.

In continuation of this State Govt letter no PWD 161/GT/W62 dt 18.5.65 on the above subject I am directed to enclose herewith a copy of this Govt letter of even number dated 9.6.65 addressed to M/s. Binnie & partners intimating them that the International Development Association have approved the draft agreement to be entered into with them & Govt wishing to proceed further in this regard. In your information & further needful action.

Y. D
14.6.65

for Secretary
to Government

Copy to Mr. D. J. Hemsting
Projects Dept. International Development
D.C.O

Association. 1818 H. Street. N.W. Washington
D.C. 20433. U.S.A for information
along with a copy letter addressed
to M/s. Brima & partners. London
with a copy of Govt of India's letter dated 26.5.65
2) Copy letter B.W.S.I.S. Agra B/Com for information

yours faithfully
[illegible]

GOVERNMENT OF MYSORE

460

No. PWD 141 GTW 62.
Encl:- Two

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 16 June 1965.

FROM

The *Secretary to the Government of Mysore,*
Public Works & Electricity Deptt.

To

Sri S.Rajagopalan,
Deputy Director General,
Public Health Engineering,
Ministry of Public Health,
Government of India,
New Delhi.

Sir,

Sub:-Bangalore Water Supply and Sewerage Project -
Consultancy agreement with M/s Binnie & Partners,
London -

In continuation of this State Government letter No.PWD 141 GTW 62, dated 18-5-65 on the above subject, I am directed to enclose herewith a copy of this Government letter of even number dated 9-6-65 addressed to M/s Binnie & Partners intimating them that the International Development Association have approved the draft agreement to be entered into with them and requesting to proceed further in this regard for your information and further needful action.

Issued
Dated 16/6/65

Yours faithfully,
Sd/-

(S.C.Wali)
Under Secretary to Government,
Public Works & Electricity Deeptt.

Memo No.PWD 141 GTW 62, Bangalore, Dt: June '65.

Encl:- Two Copy of the above is forwarded to Mr.W.J.Armstrong, Projects Department, International Development Association 1818 H.Street, N.W.Washington D.C.20433, U.S.A. for information along with a copy /letter to the addressed to M/s Binnie and Partners, London with a copy of Government of India's letter dated 26-5-65.

2. Copy to Secretary, Bangalore Water Supply & Sewerage Board, Bangalore, for information.

16.6.65

Under Secretary to Government,
Public Works & Electricity Deptt.

O/C
16/6

CA/

GOVERNMENT OF MYSORE

MYSORE GOVT. SECRETARIAT,
'VIDHANA SOUDHA'
BANGALORE, DT:9-6-1965.

No.PWD 141 GTW 62.

From

The Secretary to the Government of Mysore,
Public Works & Electricity Deptt.,Bangalore.

To

M/s Binnie & Partners,
Artillery House,
Artillery Row,
West Minister,
London, S.W.1.

Sirs,

Sub:-Bangalore Water Supply and Sewerage Project -
Consultancy agreement with M/s Binnie &
Partners, London -

Please refer to this State Government letter No.PWD 14 GTW 62, dated 16-5-65 on the above subject, wherein the acceptance of the State Government to the additions proposed to the draft agreement was conveyed to you and also to the Government of India, Ministry of Finance.

The Government of India, in the Ministry of Finance(Department of Economic Affairs) in their communication No.F.12/60/65-FB., dated 26-5-1965(copy enclosed) have intimated that the International Development Association have approved the draft agreement to be entered into with your firm.

I request you kindly to take further needful action in this regard.

The favour of reply is requested.

Yours faithfully,
Sd/-M.Channappa.
Dy.Secretary to Government,
P.W.D(Irrigation).

Copy with a copy of Govt. of India's letter is forwarded to the Chairman, Bangalore Water Supply and Sewerage Board,Bangalore, for information.

Copy to the Under Secretary, Ministry of Finance, Govt. of India with reference to their letter No.F.1/2/60/65,F.B.dt:26-5-65 for information.

Sd/-
Dy. Secretary to Govt.,P
for Secretary to Govt.,PWD.

' COPY '

IMMEDIATE

No.F.12/60/65-F.B.
Government of India
Ministry of Finance
(Department of Economic Affairs)

New Delhi, the 26th May 1965.

To

The Secretary to the Govt. of Mysore,
Public Works & Electricity Department,
Mysore Government Secretariat, Bangalore-1.

Sir,

Sub:-Bangalore Water Supply and Sewerage Project-Consultancy Agreement with M/s. Binnie and Partners, London.

I am directed to refer to your letter No.PWD 141 GTW [redacted] dated 18-5-65 and to state that the International Development Association have already approved the draft agreement with M/s Binnie and Partners. This approval by the I.D.A. has already been communicated to the Chairman, Bangalore Water Supply and Sewerage Board.

Yours faithfully,
Sd/-V.Natarajan.
Under Secretary to Govt. of Ind

' COPY '

for Secretary to Govt.,
P.W.D.

468

Partners:-
BINNIE M.A., M.I.C.E., M.I.W.E., F.G.S., F.ASCE., M.E.I.C.
G. HETHERINGTON O.B.E., M.A., M.I.C.E., M.I.W.E.
T. GERRARD B.Sc.(Eng)., M.I.C.E., M.E.I.C.
J. NORRIS M.I.C.E., M.I.W.E., M.R.S.H., A.M.I.S.P.
V. C. PHILLIPS M.C., M.A., A.M.I.C.E., A.M.I.W.E.
E. H. FORD M.C., M.A., M.I.C.E., M.I.W.E.
G. ELDRIDGE B.Sc.(Eng)., A.M.I.C.E.
S. HARDY C.B.E., B.Sc.(Eng)., M.I.C.E.
MEMBERS OF THE ASSOCIATION OF CONSULTING ENGINEERS

Consultants:-
A. R. SHEPPARD M.A., M.I.C.E., M.I.W.E., M.Cons.E.
RYLANDS THOMAS O.B.E., B.Sc.(Eng)., M.I.C.E., F.ASCE.

Associates:-
L. LITTLE B.Sc.(Eng)., M.I.C.E., M.I.Struct.E.
F. COLEBROOK T.D., Ph.D., B.Sc.(Eng)., M.I.C.E., M.I.W.E.
C. BUCK M.Sc.(Eng)., M.I.C.E., M.N.Z.I.E.
M. WILLIAMS M.A., M.I.C.E.
G. HAMMOND M.B.E., M.I.C.E., M.I.W.E.
C. TWORT B.Sc., M.I.C.E., M.I.W.E.

Secretary:-
L. R. A. BISHOP

BINNIE & PARTNERS
CHARTERED CIVIL ENGINEERS

ARTILLERY HOUSE · ARTILLERY ROW
WESTMINSTER · LONDON · S W 1

Telephone: ABBEY 6841-5
Telegrams: ARBINTRO, LONDON, S.W.1.
Telex: 24552

YOUR REF. PWD 141 GTW 62

OUR REF. PJN/382

SECRETARY TO GOVERNMENT No. 1157 19 JUN 1965 1151 PUBLIC WORKS & ELEC. DEPT.

16th June, 1965

Secretary to the Government of Mysore,
Public Works and Electricity Department,
Vidhana Soudha,
Bangalore,
India.

Dear Sir,

Bangalore Water Supply and Sewerage Project

CHAIRMAN, B'LORE WATER SUPPLY & SEWERAGE BOARD & OFFICE OF THE C.E. No. H.P.S. 100 Date 19.6.65 BANGALORE-1

We thank you for your letter of 9th June and enclosure which crossed with our letter to you of 10th June.

As requested in your penultimate paragraph, we will now arrange for the engrossment of the Agreement to be prepared and you will be receiving this for perusal within the next two to three weeks.

Yours faithfully,
BINNIE & PARTNERS

Chairman BWSS may be apprised of the C.E.
19/6/65

CHANDAPPA PATEL,
Secy. P.W. Elecy. etc

MYSORE GOVT. SECRETARIAT No. 1274 21 JUN 1965 P.V. RECEIPT

Notes & returned, with thanks

Chairman
BANGALORE WATER SUPPLY & SEWERAGE BOARD

LD.

Pl. Secy. to Govt.

469

U.O.No.PWD 28 EEB 65.

MYSORE GOVERNMENT SECRETARIAT
PUBLIC WORKS & ELECTRICITY DEPT
VIDHANA SOUDHA, BANGALORE,
DATED 6th JULY, 1965.

U.O. N O T E.

Sub:-Bangalore Water Supply and Sanitation Scheme--Requirement of Power Generation.

Ref:-Paras 200, 201 and 204 of File No. PWD 141 GTW 62.

A copy each of letter No.G-2774 dated 4th March, 1965 from the Chief Engineer, H.E.C.P. and D.O.No.PA.I/1017 dated1-7-65 of the Chief Engineer(Electricity(General), M.S.E.B., on the subject mentioned above is forwarded herewith.

5/7/65

(S.Balasubramanyan)
Under Secretary to Government,
Public Works & Electricity Department.

The ~~General~~ Special Irrigation Section.

Soi M

rao/2/5-7-65.

MYSORE GOVT SECRETARIAT
No. 352/ID/65
8 JUL
P.W.D. (SPECIAL IRRIGATION)

COPY of the letter No.G-2774 dt.4-3-65 of the Chief Engineer, H.E.C.P., Bangalore, addressed to the Secretary to the Govt. of Mysore, P.W.D., Bangalore.

Sub:-Bangalore Water Supply and Santitation Scheme--
Requirement of Power Generation.

With reference to your letter No.PWD 28 EEB 65 dated 24th Feb.1965, I write to state as follows:-

The power channel from Sivasamudram Anicut to Hetkal Balancing Reservoir is designed for 900 cusecs. At present, only 300 cusecs are being drawn and hence there would be no difficulty to issue water for Bangalore Water Supply Scheme without affecting the power generation. Later on when the Shimsha expansion scheme is taken up and the full quantity of 900 cusecs is drawn for power generation, the channel will have to be suitably improved to be able to drmaw 900 cusecs plus the discharge required for the Bangalore Water Supply. The Cauvery Hydro-Electric Scheme is still under investigation and it cannot be said at this stage whether the Shimsha station will be submerged or not. However, in view of the fact that the Sharavathi Station will be contributing large quantum of power to the Grid, I am of opinion that giving the right of issue of water for Bangalore Water Supply over that required for the power generation will not considerably affect the power situation and we may therefore, agree to give priority for the requirements of water supply. As the Mysore State Electricity Board is in charge of Shivasamudram and Shimsha Power Stations, the Board may be suitably advised in the matter by Government.

Sd/-G.Sambasiviah.
Chief Engineer, HECP.

/COPY/

5.7.65

for Secretary to Government
Public Works Department.

rao/2/5-7-65.

COPY of D.O.No.PA.I/1017 dt.1-7-65,of the Chief Engineer, Electricity(General) Bangalore, addressed to the Deputy Secretary to the Govt. of Mysore, P.W.D.(P.P.), Bangalore.

Sub:-Bangalore Water Supply and the Sanitation Scheme-- Requirement of Power Generation.

Ref:-Your D.O.letter No.PWD 28 EEB 65 dt.8-6-65.
My D.O.letter No.PA.I/725-7 dated 15-6-1965.

Further to my above D.O.letter, addressed to you, I write to state that a reply has been received from the Chief Engineer, HECP and the position found is as follows:-

Preliminary investigation with regard to five schemes for power development in the Cauvery basin contemplating construction of more than one dam in alternative positions, have been carried out by the HECP. The impact of the schemes has been roughly assessed by H.E.C.P., as hereunder:-

Schemes	No. of dams	Power potential in M.W.	Effect on the existing Stations at Sivasamudr[illegible]imsh[illegible]
I	4	1,125	Both Shimsha and Siva w[illegible] submerged.
II	3	800	Shimsha will be sub-[illegible] Water spread may touch [illegible]race of Siva.
III	3	400	Water spread may touch [illegible]il-race of Shimsha.
IV	2	600	- do -
V	2	850	Shimsha will be subm[illegible] Water spread may touch [illegible]ac[illegible] of Siva.

None of the above schemes have been finalised. However [illegible] will be seen from the above details that in the event schemes [illegible], I are taken up, Shimsha Power House will be sub-merged and [illegible] waters allotted for Power Generation at Shimsha can be util[illegible] the Water Supply Board.

But, if Schemes III and IV are taken up, Shimsha Power [illegible] will not be affected. In such an event, having regard to th[illegible] that the Siva Power House will become obsolete in due cours[illegible] will be necessary to divert the Siva waters also to Shimsha for [illegible] Generation there. The power requirements, under these circ[illegible]ces, will be a flow of 1200 cusecs towards Shimsha. The capacit[illegible] the present canal being only 900 cusecs remodelling of the exi[illegible] canal to achieve further capacity for power generation alon[illegible] become imperative.

Taking into account the above facts it has to be stat[illegible] follows:-

As long as no further development of Shimsha is taken [illegible] power generation at Sivasamudram continues, there should be [illegible] objection for the water supply board drwaing their require[illegible]

of 300 cusecs in the Canal from siva Anecut. But by no means preferential right can be granted to them, as it would jeopardise the interest of power generation when more than 600 cusecs of water will be required for power generation there, in future.

It is, therefore suggested that the Water Supply Board may be suitably advised to be prepared to have their own Water system as the above said 300 cusecs will not be available to them in the event discharges for power exceed 600 cusecs as may happen if additional power development is taken up.

Sd/-B.M.Safiulla.

/COPY/

5.7.65

for Secretary to Government
Public Works Department.

rao/2/5-7-65.

STATE EXPRESS TELEGRAM

NATARAJAN
ECOFAIRS
NEW DELHI

-.-.-.

477/1

. CHANNAPPA, B.E., AMIE.,
Deputy Secretary to Government,
Public Works Department (Irrgn.)

D.O.No.PWD 141 GTW 62.

Mysore Government Secretariat,
Vidhana Soudha,
lore, dated 20th Sept. '65.
21

Dear Sir,

Subject:- Bangalore Water Supply Scheme - Assurance of Water supply from Sivasamudram Anecut - Reservation of Storage capacity of Kabini Storage Dam for Bangalore Water Supply.

Kindly refer to the Government letter No. PWD 141 GTW 62 dated 27-3-65 and subsequent reminder thereto dated 2-8-1965 and D.O. reminder of even number dated 13-8-1965 on the above subject. In this connection, I am also to invite your attention to the telephonic discussions, ~~hx~~ you had with the Secretary, Public Works Department in the matter on 12-8-1965. You had promised that you would look into the ~~matter~~ case urgently. No reply has so far been received in the matter. As the matter is very urgent, I request you again, to look into the case personally an send your report without any further delay.

Yours sincerely,

21/9/65

ISSUED
Dated 21/9/65

To -
Shri I.M. Magdum, B.E. M.I.E (INO)
Chief Engineer,
Irrigation Projects,
Bangalore.

ags/20-2.

GOVERNMENT OF MYSORE

No.PWD 141 GTW 62
Encl: nil.

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, Dated 18-10-1965.

NOTICE:

Subject: Bangalore Water Supply projects - assurances of water supply to Long Range Water Supply Scheme-Bangalore.

....

A meeting is proposed to be held in the Chambers of the Secretary, Public Works Department Vidhana Soudha at 11 A.M. on 25.10.1965 for discussion and taking decision regarding assurance of water supply to the Long Range Water Supply Scheme Bangalore.

A small note indicating the points for discussion and decision is also enclosed.

Kindly make it convenient to attend the meeting.

M Channappa

(M.CHANNAPPA),
Deputy Secretary to Government,
P.W.Department (Irrigation).

The Chairman,
Mysore State Electricity Board,
Bangalore.

The Chairman,
Bangalore Water Supply & Sewerage Board,
Bangalore.

The Secretary,
Public Works Department,
Bangalore.

The Chief Engineer,
Irrigation Projects,
Bangalore.

Issued
Dated 18/10/65

ghps:5/181065.

Subject: ASSURANCE OF WATER SUPPLY TO LONG RANGE WATER SUPPLY SCHEME OF BANGALORE CITY.

The Chairman, Bangalore Water Supply and Sewerage Board has been frequently reminding Government to issue early orders of Government on the following two points regarding Long Range Water Supply Scheme to Bangalore City.

(a) Assurance of water supply through the power channel running from the Sivasamudram Anicut to the Hetkal Balancing Reservoir, and

(b) Reservation of certain storage in Kabini dam for Bangalore Water supply.

It is stated the World Bank Team which is here is also very particular on this decision.

Regarding drawing of water from the Hitkal Balancing Reservoir, the Chief Engineer (M.S.E.B.) has indicated the general possibility of drawing up of water from Hetkal Balancing Reservoir but has stated that there would be difficulty in granting preferential rights as it would jeopardise the interest of power generation when more than 600 cusecs of water is required for power generation at Shimsha. He has therefore suggested that the water Supply and Sewerage Board may be suitably advised to be prepared to have their own water system as the Board will not be able to draw 300 cusics through the power channel in the event discharges for power generation exceed 600 cusecs, which may happen if additional power development is taken up at Shimsha. In this context it may be st ted that in view of the availability of large quantum of power from Sharavathy there may not be any necessity of additional power development at Shimsha. The proposals of having - Hogenkal Project as a joint venture of Mysore and Madras Governments and also that of taking a power project scheme across Cauvery within our State itself (Lower down Shimsha) are under consideration separately. Such being the case, there may not be any proposal for generation of additional power at Shimsha by drawing 600 cusecs through power channel and such a contingency as anticipated by the Chief Engineer (General) (Mysore State Electricity Board) may not arise at all.

.....P.2)

Regarding the reservation of 1.2 T.M.C.Ft. of water in the Kabini Reservoir for Bangalore Water Supply Scheme, it is seen that in the Technical Sub-Committee of M,I.P.C. Board held on 29.8.1962 it is indicated that providing for 1.2 T.M.C.Ft. has been made for supplying water for Bangalore City Water Supply Scheme from Cauvery and the project estimates get ~~ready~~ reduced to the extent the cost of the storage of water that will have to be paid by the Board authorities.

It is however learnt over Phone from the Office of the Chief Engineer (I.P), that the cost of 1.2 T.M.C.Ft. of water would be 60 to 65 lakhs.

Decision on the following points are required granting preferential rights to Bangalore Water Supply and Sewerage Board to draw 300 cusecs of water through the Power Channel from Shivasamudram Anicut to Helkal Balancing reservoir.

2) Assurance of reservation of 1.2 T.M.C.Ft. of water in Kabini Reservoir for Bangalore Water Supply.

3) Payment of ~~cut~~ cost of 1.2 T.M.C.Ft. of water by the Board as credit to Kabini Project.

-.-

GOVERNMENT OF MYSORE.

Mysore Government Secretariat,
Vidhana Soudha,

No.PWD/41/GTW/62 Bangalore, dated 2-8-1965

From
The Secretary to the Govt., of Mysore,
Public Works Department.

To The C.E. (IP) Bangalore

Sir,

Sub:- Bangalore water supply scheme — Assurance of water supply from Sivasamundram Anicut - Reservation of storage capacity of Kabini Storage Dam for Bangalore water supply.

I am directed to invite attention to the Government D.O letter of even number dated 27-3-65 and ~~your letter No.~~ ..... ~~dated~~ ..... on the above subject, and to request you to expedite your reply in the matter within a week.

~~This is pending since.....~~

Yours faithfully,

26/7 21 2/8/65 under 29/7

~~For~~ Deputy Secretary to Govt.,
Public Works Department.
(Irrigation)

since the Chief Engineer (PI) M.S.E.B. were addressed in the matter. They have furnished their reports which are enclosed herewith for your information and reference.

I am to request you kindly to offer your remarks thereon for taking further action in this regard.

This may please be treated as urgent.

7.2

Allegations against Koyna Storage Dam, appeared from the Ch. Dep. is still awaited. He has been reminded separately to expedite his report.

(6) P. 4689/1 to 4689/3

M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(*Continuation sheet draft form*).

Subject:- Bangalore water-supply and Sewerage Project — Assurance of water-supply from the power channel running from the Sivasamudram Anicut to the Vellal Balancing Reservoir —

To

The Chairman
Bangalore water-supply and Sewerage Board
Bangalore

Sir:

I am directed to refer to the letter in connection with the subject relating to Assurance of water-supply from the power channel running from the Sivasamudram Anicut to the Vellal Balancing Reservoir and to state that this point regarding the rights of B'lore water-supply scheme should be made clear by issue of specific fresh orders & that this should be done urgently.

The Chief Engineer H.E.P. B'lore

M. G. S. App. F. G. 3]

MYSORE GOVERNMENT

SECRETARIAT.

(Continuation sheet draft form).

Immediate

Subject:- Bangalore water supply Scheme — Assurance of water supply from Sivasamudram Anicut — Reservation of Storage Capacity of Kabini Storage Dam for Bangalore water supply.

Dear Sir:—

Please refer to your letter No. PWD 141 CTW 62 dt. 27.3.65 and subsequent reminder dated 2.8.1965 on the above subject. You were kindly asked therein to clarify certain points in regard to availability of water for Bangalore water supply from the Kabini Reservoir. No reply has been received up till now.

As the matter is urgent, I request you to look into the matter personally and see that a reply is sent to us immediately.

With all reference to our today's telephonic discussion.

Ch 12/8

To The C.E.D.P. (By name).

WD 04698—GPB—PZS—1,00,000—25-8-59

No. KRP/92/T.3, /765.

Office of the Chief Engineer,
Irrigation Projects,
Bangalore. Dt. 9-8-65.

To

The Secretary to Government of Mysore,
Public Works Department,
Bangalore.

Sir,

Sub:- Bangalore Water supply Scheme - assurance of water supply from Shivasamudram - recent Reservation of storage capacity of Kabini storage ~~capacity~~ dam for Bangalore water supply.

Ref:- Government D.O.No. FWD 141 GMI 65 dated 27-3-1965.

Certain clarifications on the above subject are called for on the report submitted by the Superintending Engineer, Mysore Circle. On receipt of report from the Superintending Engineer, a reply will be made to Government.

Yours faithfully,

for Chief Engineer,
Irrigation Projects.

1577
10 AUG 1965
P.W.D. (RECEIPT)

CHANDAPPA PATIL

472/1

12th AUGUST, 65.

13

D.O.No.PWD 141 GTW 62.

Dear Sri,

Sub:-Bangalore Water
Assurance of Water supply from
Sivasamudram Anecut--Reservation
of Storage capacity of Kabini
Storage Dam for Bangalore Water Supply

Please refer to the Government letter No.PWD 141 GTW 62 dated 27-3-1965 and subsequent reminder thereto dated 2-8-1965 on the above subject. You were requested therein to clarify certain points in regard to the availability of water for Bangalore Water Supply from the Kabini Reservoir. No reply has been received uptill now. As the matter is urgent, I request you to look into the matter personally and see that a reply is sent to Government immediately.

This has a reference to our to-day's telephonic discussion.

Issued
Dated 13/8/65

Yours sincerely,

CW
12/8/65

Shri I.M.Magdum,
Chief Engineer,
Irrigation Projects,
Bangalore.

rao/2/12-8-1965.

"WATERSUP" BANGALORE PHONE No. 27781

BANGALORE WATER SUPPLY AND SEWERAGE BOARD.

K.NARAYANASWAMY, I.A.S.,
CHAIRMAN.

M.G.I.D. BUILDING (ANNEXE)
BANGALORE-1,

No. BWSSB: 2017/65 **Immediate**

Date. 12th August 1965.

SECRETARY TO GOVERNMENT
No. 1170
13 AUG 1965
PUBLIC WORKS & ELEC. DEPT.

Dear Shri Chandappa Patel,

Subject: (1) Drawing of Cauvery River Water from Netkal blancing reservoir (near Shimsha Hydro Electric Project) for the Bangalore Long Range Water Supply Project

(2) Drawing of water from Kabbini Storage Dam for the same project.

The above questions are pending with Government ever since the visit of the World Bank Team in 1964.

These are being dealt with in P.W.D.Secretariat File No.PWD 13 LWS 64.

I will be grateful if you can kindly arrange to get the questions settled as quickly as possible.

The matter may kindly be treated as extremely urgent, because the World Bank Team is due to visit Bangalore in September 1965.

Yours sincerely,

K Narayanaswamy

Shri Chandappa Patel, I.A.S.,
Secretary to Government,
Public Works & Electricity Dept.,
"Vidhana Soudha",
Bangalore.-1.

pp. on 13-8-65

CE
13/8

Dr. (L)

Appendix F. G.—11

SUBJECT ..... As at page 4.73 .....

Diary No. ter replied to .....

Government Secretariat.

( )

the 196 .

Date of issue.....

Signed by .....

Section

File No.

Serial No.

No.

To The Chairman Bangalore Water Supply & Sewerage Board Bangalore.

Sir,

With reference to your D.O letter No BWSSB 2017/65 dt 12-8-65 on the above subject I am directed to state that the C.E(IP) has been addressed to clarify certain points in regard to availability of water from the Kabini Reservoir. On receipt of C.E(IP) reply the necessary orders of Govt will be issued in this regard.

Yours faithfully

U.S. to Govt

Pleasure 1478 AWE

To-Mother.

He has given permission Dh Chem. Officer on 13.8.65 to. He has however promised to look into the matter urgently. On hearing from him further action will be taken in this regard.

As regards drawing Cauvery water from Kabini Reservoir, reports from the C.E.(P) MSR & from the C.E.

They are under examination.

List of enclosures.....

Copied by ..... Colonies

Examined by ..... Received

4. 25/18/8/65

U.S. for information

Appendix

SUBJECT .. As at page 472

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 196 .

Date of issue.....

Signed by .....

Section

File No.

Serial No.

No.

To The Chairman Bangalore Water Supply & Sewerage Board Bangalore.

Sir,

With reference to your D.O letter No BWSSB 2017/65 dt 12-8-65 on the above subject I am directed to state that the C.E(SP) has been addressed to clarify certain points in regard to availability of water from the Kabini Reservoir. On receipt of C.E(SP) reply the necessary orders of Govt will be issued in this regard.

Yours faithfully

U.S. to Govt

1478 AWE

Please file the matter.

He has given reminder on 13.8.65 to Chief Engineer. He has however promised to look into the matter urgently. On hearing from him further action will be taken in this regard.

As regards drawing of Cauvery water from Kabini Reservoir, reports from the Superintending Engineer, reports from the C.E.(SP) MSR/Sir from the C.E.

He/they have/have not received. They are under examination.

List of enclosures.....

Copied by .....

Examined by .....

4. 18/8/65

(47)

GOVERNMENT OF MYSORE

No. PWD 141 GTW 62.

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

FROM

Dated, Bangalore, 23rd AUG 1965.

The *Secretary to the Government of Mysore,*
Public Works & Electricity Department,
Bangalore.

To

The Chairman,
Bangalore Water Supply and Sewerage Board,
B A N G A L O R E.

Sir,

Subject:- Drawing of Cauvery River Water from Netkal Balancing Reservoir (Near Shimsha Hydro Electric Project) for the Bangalore long rage water supply Project.

2) Drawing of water from Kabbini storage Dam for the same project.

With reference to your letter No. BWSSB 2017/65, dated 12th August 1965 on the above subject, I am directed to state that the Chief Engineer, Irrigation project has been addressed to clarify certain points in regard to availability of water from the Kabini Reservoir. He has been reminded Demi Officially on 13th August 1965 to expedite the matter. He has however promised to look into the matter urgently. On hearing from him further needful action should be taken on this regard.

As regards drawing Cauvery water from Netkal balancing Reservoir, reports from the Chief Engineer (General), Mysore State Electricity Board and from the Chief Engineer, Hydro Electric Construction Project have been received. They are under examination.

Yours faithfully,

23/8/65

(M. Channappa),
Deputy Secretary to the Government,
Public Works Department, (Irrigation).

ISSUED
Dated 24-8-65.

Grv 23.8.65/2.

O/C
23/8

GRAMS: "WATERSUP" BANGALORE 476 PHONE NO. 27751

BANGALORE WATER SUPPLY AND SEWERAGE BOARD.

K. NARAYANASWAMY, I.A.S.,
CHAIRMAN.

M.G.I.D., BUILDING (ANNEXE)
BANGALORE-1,

Immediate

No. BWSSB: 2491/65

Dated 17th Sep. 1965.

Dear Shri Chandappa Patel,

Sub: (1) Drawing of Cauvery River Water from Netkal balancing reservoir (near Shimsha Hydro Electric Project) for the Bangalore Long Range Water Supply Project.

(2) Drawing of water from Kabbini Storage Dam for the same project.

Please refer to my D.O. letter No.BWSSB:2017/65 dated 12th August 1965 on the above. As the World Bank Technical Mission have arrived in Bangalore, I shall be grateful if you could kindly communicate the decision if the above questions have been settled. The World Bank Team which is here will also discuss the subject with you.

Yours sincerely,

K. Narayanaswamy

18/9/65

Shri Chandappa Patel, I.A.S.,
Secretary to Government,
Public Works & Electricity Dept.,
"Vidhana Soudha",
BANGALORE-1.

SECRETARY TO GOVERNMENT
No. D.O. 1174
18 SEP 1965
PUBLIC WORKS & ELEC. DEPT.

MYSORE GOVT. SECRETARIAT
1864
18 SEP 1965
R. & D. (RECEIPT & ...)

Subject:- As in page 472/N

Dear Sir;

Kindly refer to the Govt letter no. PWD 16/CTW 62 dt 27.3.65 and subsequent reminder therein dated 2.8.1965 and D.O. reminder of even number dated 13.8.1965 on the above subject. In this connection I am also to invite your attention to the telephonic discussions you had with the Dy Secy PWD in the matter on 12.8.1965. You had promised ~~before the deputy~~ that you would look into this case urgently. No reply has so far been received in the matter.

As the matter is very urgent, I request you again to look into the case personally and send your reply within any few days delay.

Yours
18/9/65
(D/S(D))

To

The C.E. Dy
Bangalore

Dy name
pl.

Government of Mysore.

Office of the Chief Engineer, P.W.D., Irrigation Projects in Mysore,

No. KRP/92/TA3/1093.
Encl. 1.

Bangalore-, Dated: 2-11-65.

To

The Secretary to Govt. of Mysore,
Public Works Department,
'Vidhana Soudha' BANGALORE-1.

Sir,

No 2166
4 NOV 1965

Sub:- Bangalore Water Supply Scheme- Assurance of water supply from Sivasamudram anecut- Reservation of storage capacity of Kabini Storage dam for Bangalore Water Supply.

Ref:- Govt. letter D.O. No. PWD 141 GTW 62 dated 27-3-1965.

--:oOo:--

I am to furnish below in seriatum, the clarifications called for.

1) What is the IInd crop mentioned at item No.2 under the head utilisation.	Mixed crops of Sugarcane and Ragi etc., to the extent of 7000 acres under Kabini Reservoir Channels and 13000 acres under the Hulahally and Madhavamanthri Anicut channels will be supplied with water from Kabini Reservoir for raising a Second crop.
2) What was the power released from K.R.Sagar to do with the Irrigation under Kabini Reservoir.	At present the water requirements for power generation at Shivasamudram and Shimsha are being met with from the storage at K.R.Sagar. It is proposed to release the water requirements for power generation at Shimsha and Shivasamudram from Kabini Reservoir and utilise the equivalent storage from K.R.Sagar for increasing the Irrigation under K.R.Sagar Canals. The credit for this Irrigation under K.R.Sagar is therefore shown under Kabini. In this connection please vide proceedings of the Technical Sub-Committee dated: 30-8-62
3) Whether the storage capacity of Kabini suffice the water requirements of Bangalore city.	The storge of 1.2 T.M.Cft. under Kabini Reservoir for Bangalore water supply is based on the requirement of 120 cusecs for 4 months as reported to be intimated to the Superintending Engineer Mysore Circle, by the Executive Engineer, Long Range Water supply Division

cont....p.t.o....

Bangalore. Copy of letter No. IWS-426-27/62-63 dated 30-7-62, enclosed for ready reference.

Yours faithfully,

for Chief Engineer,
Irrigation Projects.

Uk/-1-11.

1/11

7.11.65

Encl:- A copy of letter No. IWS/426-27/62-63 dated 30.7.62 from the E.E Water Supply division, Bangalore

-overnment of Mysore.

Office of the Chief En[illegible] W.D., Irri[illegible] projects in Mysore,

No. KRP/92/TA3/1073.
Encl. 1.

Bangalore- , Dated :- 2-11-65.

To

The Secretary to Govt.of Mysore,
Public Works Department,
'Vidhana Soudha' BANGALORE-1.

Sir,

No 2166
4 NOV 1965

Sub:-Bangalore Water Supply Scheme-Assurance of water supply from Sivasamudram anecut-Reservation of storage capacity of Kabini Storage dam for Bangalore Water Supply.

page 430 C.F.

Ref:-Govt.letter D.O.No.PWD 141 GTW 62 dated 27-3-1965.

--:oOo:--

I am to furnish below in seriatum, the clarifications called for.

1) What is the IInd crop mentioned at item No.2 under the head utilisation.	Mixed crops of Sugarcane and Ragi etc., to the extent of 7000 acres under Kabini Reservoir Channels and 13000 acres under the Hulahally and Madhavamanthri Anicut channels will be supplied with water from Kabini Reservoir for raising a Second crop.
2) What was the power released from K.R.Sagar to do with the Irrigation under Kabini Reservoir.	At present the water requirements for power generation at Shivasamudram and Shimsha are being met with from the storage at K.R.Sagar. It is proposed to release the water requirements for power generation at Shimsha and Shivasamudram from Kabini Reservoir and utilise the equivalent storage from K.R.Sagar for increasing the Irrigation under K.R.Sagar Canals. The credit for this Irrigation under K.R.Sagar is therefore shown under Kabini. In this connection please vide proceedings of the Technical Sub-Committee dated: 30-8-62
3) Whether the storage capacity of Kabini suffice the water requirements of Bangalore city.	The storge of 1.2 T.M.Cft. under Kabini Reservoir for Bangalore water supply is based on the requirement of 120 cusecs for 4 months as reported to be intimated to the Superintending Engineer Mysore Circle, by the Executive Engineer, Long Range Water supply Division

cont....p.t.o....

Letter No.IWS-426-27/62-63 dated 30-7-62 from the Executive-Engineer, Long Range W.S.Division, Bangalore, to the Superintending-Engineer, Mysore Circle, Mysore.

...

Sub:-Long Range Water supply scheme to Bangalore from Cauvery River.

...

I write to bring to your notice that this Division is preparing the scheme for Long Range Water Supply Scheme Water Supply to Bangalore. The Scheme envisages a supply of 30 million Gallons a day for the Ist Stage i.e., to be completed by 1966 and a supply of 60 Million Gallons a day to be completed by the year 1972. The source will be River Cauvery. The above requirement means an additional flow of about 120 cusecs which is proposed to be drawn at Shivasamudram Anecut. The gauge discharges at Shivasamudram indicate that during the dry 4 months the discharge at the site falls to about 1200 cusecs which is just sufficient for power generation purposes.

It is further necessary that during these lean months the Electricity Board authorities supplement the flow by the storage at K.R.Sagar. As far as is known, the Kabini Reservoir will ultimately meet this shortage of water for Power Generation by letting down the storage water into the river to be picked up at Shivasamudram. So it is considered that it will not be very difficult to let down the additional requirements of water for Bangalore water supply purposes which is only 56 cusecs immediately and 120 cusecs ultimately to be picked up at Shivasamudram.

The total additional storage that may be required at Kabini for meeting the ultimate requirement of 120 cusecs for four months in an average year will be 1.2 T.M.Cft. It is presumed that with the increased storage now proposed to be provided at Kabini, it may not be very difficult to supply water urgently required for development of Bangalore Water Supply. It is felt by a suitable change of crop pattern in the Reservoir it will be possible to make the required water available.

Pending detailed investigations regarding these, it is proposed to incorporate in the Bangalore Water Supply scheme estimates, the proportionate cost pro-rata basis for the 1.2 T.M.Cft. of water ultimately required for Bangalore Water supply.

I hope this proposal meet with your kind approval and if so I may kindly be informed of the salient features of the project to arrive at the proportionate cost to be provided for in the estimates of Bangalore Water Supply.

It is requested that the matter may please be treated as very urgent and an immediate reply furnished.

...

/ C o p y /

sd/-
for Superintending Engineer,
Mysore Circle, Mysore.

/ C o p y /

Ramachandrah 1.11.65

Uk/-1-11.

Draft D.O

No PWD 141 GTW 62

U79

dt

Subject:- Bangalore water supply and Sewerage project — Assurance of water supply from Sivasamudram anicut — Reservation of storage capacity of Kabini storage dam for Bangalore water supply.

Dear ~~Sir~~,

Ref:- your letter No KRP/92/TB3/1093 dt 2-11-65 on the subject.

I wish to recall to the telephonic conversation we had on 16-XI-65 regarding assurance of water supply to Bangalore Long Range water supply scheme. You had promised that you would send your specific ~~assurance~~ remarks in the matter. ~~Kindly arrange to send your reply at an early date~~

As final decision in the matter is to be arrived at I request your immediate in the matter.

J.S.

Sd. J.M. Magdum
B.E.(M.S.E (India)
C.E. (I.P.) Bangalore

CE
CE/11

ISSUED
Dated 19/11/65

Please
17/XI 22

GRAM: "WATERSUP" BANGALORE PHONE No. 28502

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

No. BWSSB: CE: 4886-89/65

M.G.I.D. BUILDING (ANNEXE)
BANGALORE-1,

Date 19/11/1965.

From

The Chief Engineer,
Bangalore Water Supply & Sewerage Board,
Bangalore.

To

The Chief Engineer,
Major Irrigation.
P.W.D.,
Bangalore-1.

Sir,

Sub:- Abstraction of Water from river Cauvery for Bangalore Water Supply

The Water demand of the new Bangalore Water Supply Project at the intake point proposed to be located at the Netkal balancing reservoir is 150 cusecs for the first stage of 60 M.G.D. and 300 cusecs for the second stage of 120 M.G.D. supply. The project report envisages this supply fromRiver Cauvery at the Sivasamudram anecut. It has been from the beginning presumed that the maximum supply of 300 cusecs is available fromthe river except for four months in the year and it is proposed to tide over this period by building up a corresponding storage in Kabini reservoir.

SM 9 Sulou
19/11/65

Our Consultants, while examining this important aspect of the Project,have advised us that while getting the Government Order issuedon this question a clear directive is to be incorporatedguranteeing the release of 150 cusecs for the first stage and 300 cusecs for the second stage for the Bangalore Water Supply Project at Sivasamudram anecut apart from quantities released for irrgiation and power generation according to agreements that may govern such releases.

This subject was discussed with you on 15.11.65. when you agreed that the modus-operandi to ensure releases at Sivasamudram anecut for the Bangalore Water Supply project will be workedout in your office and forwarded to Government. I request you to be so good as to see that further action in the matter is taken very early.

Yours faithfully,

sd/-K.G.Katwey,
Chief Engineer,BWSSB.

Copy forwarded to Secretary to Government, Public Works and Electricity Department, Vidhana Soudha, Bangalore.

Chief Engineer,
BWSSB.
19/11

DR/

Sub: Bangalore Water Supply and Sewerage Project - Assurance of water supply from Sivanasamudram anicut - Reservation of storage capacity of Kabini storage dam for Bangalore Water Supply - Orders thereon -

Ref: 1) Proceedings of the meeting of Technical Sub-committee of M.I.P.C. Board, held on 29-8-62.

2) Proceedings of the 1st meeting of the Technical Sub-committee, Bangalore Water Supply and Sanitation Control Board held on 12-9-63.

3) Correspondence resting with letter No.BWSSB 2491/65 dated 17-9-65 from the Chairman, B.W.S. & S Board, Bangalore, on the subject.

4) Correspondence ending with letter No.KRP/92/TA3/1093 dated 2-11-65 from the Chief Engineer, IP, Bangalore, in the matter.

Preamble:

The Technical Sub-committee of the Bangalore Water Supply & Sewerage Board, had opined that the power channel from Sivanasamudram Anicut upto Nekkal balancing Reservoir has a discharging capacity of 900 cusecs whereas at present only 300 cusecs are being drawn ~~only required~~, for the generation of power at Sivanasamudram; ~~at the present~~ hence there ~~should be~~ is adequate ~~surplus~~ capacity in the channel for drawing 300 cusecs of water for Bangalore water supply purposes ~~even upto 120 MGD or more~~. They had therefore recommended that the ~~water required for the Bangalore Water Supply Scheme may be drawn through the power channel and the~~ water supply requirements may be drawn through the same power channel and drawn off for water supply to Bangalore, should have first priority over the requirements of power generation at Sivanasamudram.

of supplying water to the city of Bangalore

In the Project Report of the Kabini Dam, a provision of ~~1,200 M.C.ft~~ 1.2 T.M.Cft. of water is made for Bangalore Water Supply from the Kabini Reservoir, after taking into account the direct irrigational needs, power draw off, evaporation ~~losses~~

losses and carry over etc., In the M.I.P.C. Board meeting held on 29-8-62, this matter was also discussed. Considering the availability of water at Kabini Reservoir, the board had resolved that provision be made for reservation of 1.2 T.M.C.ft for supply of water to the Bangalore Water Supply Scheme and thus reduce the project cost to the extent of the cost of storage of water that will have to be paid by the corporation/Board authorities.

The above subject was ~~again~~ further discussed in the Chambers of the Secretary, P.W.D. when the Chairman, M.S.E.B., Chairman, B.W.S.& S Board, C.E. IP, ~~Bangalore~~, and the C.E. B.W.S.& S Board, were present. This matter was further discussed in the Chief Minister's Chambers during the review of the progress of Bangalore Water Supply and Sewerage Works when the Minister for Municipal Admn. and the Minister for P.W.D. as also the Secretaries to Government were present. The need for issue of Government Orders assuring supply of (1) 150 cusecs of water for the Bangalore Water Supply and Sewerage Board, during the first stage and (2) an addl. supply of 150 cusecs later on for the 2nd stage (300 cusecs in all) through the power channel from Shivanasamudram Anicut to Netkal balancing Reservoir was explained. It was pointed out that the World Bank authorities and the consultants were both pressing for this guarantee regarding the source of water as this had to be got incorporated in the project report urgently.

The Chairman, B.W.S. & S Board, ~~Bangalore~~ ~~has~~ stated that the World Bank authorities and the

the consulting engineers are anxious to see that this question of water source is cleared up immediately and ~~has therefore~~ requested Govt. for ~~take~~ early ~~action~~ orders in the matter.

ORDER NO.PWD 14 GTW 62

Bangalore, dated Dec.65

After a detailed ~~examination~~ consideration of the above proposals, Govt. direct that:-

1. Assurance and Priority for drawal of 150 cusecs of water in the first stage of 60 M.G.D. and 300 cusecs for the second stage of 120 M.G.D. through the power channel from Shivasamudram Anicut to the Netkal Balancing Reservoir for Bangalore Water Supply ~~pub power~~ to be given to the Bangalore Water Supply and Sewerage Board.

2. The Mysore State Electricity Board shall enter into an agreement with the B.W.&S.B. for drawing ~~its~~ the above requirements of water through the power channel from Shivasamudram Anicut to Netkal Balancing Reservoir.

as calculated by the CE of B.W.S.&B and intimated over phone

3. A ~~storage~~ Quantity of 2.8 T.M.Cft. of water be reserved in the Kabini Reservoir to enable supply of 300 cusecs of water to Bangalore water supply for a period of 4 months during summer. Proportionate ~~out of stage~~ cost of storage of 2.8 T.M. Cft. of water be paid by the B.W.&S.Board to Govt. to be given credit to the ~~cut~~ cost of Kabini

685

Reservoir Project.

BY ORDER ETC.

3/4/61

D.S.(I)

To:

The Chairman, B.W.& S.Board,Bangalore.
The Chairman, MSEB,Bangalore.
The Secretary,Labour & Ml.Admn.Dept.B'lore.
The A.G.Mysore,Bangalore.
The C.E.(G) Bangalore.
The C.E.(IP),Bangalore.
The C.E.HECP.Bangalore.
The C.E.(General), M.S.E.B.Bangalore.
The C.E. B.W.S.& Bd.Bangalore.

Copy to:
Power Projects Secn. Electrical Section.
Labour Ml.Admn.Dept.
S.G.

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

—

ub:-Bangalore Water Supply and Sewerage Project-Assurance of Water Supply from Sivanasamudram Anicut-Reservation of storage capacity of Kabini Storage dam for Bangalore Water Supply-Orders thereon-

ef:-1. Proceedings of the meeting of Technical Sub-Committtee of M.I.P.C. Board, held on 29-8-1962.

2. Proceedings of the 1st meeting of the Technical Sub-committee, Bangalore Water Supply and Sanitation Control Board held on 12-9-63.

3. Correspondence resting with letter No.BWSSB 2491/65 dated 17-9-65 from the Chairman, B.W.S. & S.Board, Bangalore, on the subject.

4. Correspondence ending with letter No.KRP/92/TA3/1093 dated 1965 from the Chief Engineer, IP, Bangalore, in the matter.

Preamble:-The Technical Sub-Committee of the Bangalore Water Supply & Sewerage Board, had opined that the power channel from Sivasamudram Anicut upto Netkal balancing Reservoir has a discharging capacity of 900 cusecs whereas at present only 300 cusecs are being drawn for the generation of power at Sivanasamudram; hence there is adequate capacity in the channel for drawing 300 cusecs of water for the purpose of supplying water to the City of Bangalore. They had therefore recommended that the water supply requirements may be drawn through the same power channel and draw-off for water supply to Bangalore should have first priority over the requirements of power generation at Sivanasamudram.

In the Project Report of the Kabini Dam, a provision of 1.2 T.M.Cft. of water is made for Bangalore Water Supply from the Kabini Reservoir, after taking into account the direct irrigational needs, power draw off, evaporation losses and carry over etc. In the M.I.P.C. Board meeting held on 29-8-62, this matter was also discussed. Considering the availability of water at Kabini Reservoir, the Board had resolved that provision be made for reservation of 1.2 T.M.C.ft. for supply of water to the Bangalore Water Supply Scheme and thus reduce the project cost to the extent of the cost of storage of water that will have to be paid by the corporation/Board authorities.

The above subject was further discussed in the Chambers of the Secretary, P.W.D. when the Chairman, Mysore State Electricity Board, Chairman, Bangalore Water Supply and Sewerage Board, were present. This matter was further discussed in the Chief Minister's Chambers during the review of the progress of Bangalore Water Supply and Sewerage Works when the Minister for Municipal Admn. and the Minister for P.W.D. as also the Secretaries to Government were present. The Orders assuring supply of 1) 150 cusecs of water for the Bangalore Water Supply and Sewerage Board, during the first stage and (2) an Additional supply of 150 cusecs later on for the 2nd stage (300 cusecs in all) through the power channel from Shivanasamudram Anicut to Netkal balancing Reservoir was explained. It was pointed out that the World Bank authorities and the consultants were both pressing for this guarantee regarding the source of water as this had to be got incorporated in the project report urgently.

The need for issue of Govt.

The Chairman, Bangalore Water Supply & Sewerage Board, stated that the World Bank authorities and the Consulting Engineers are anxious to see that this question of water source is

.....contd.

cleared up immediately and requested Government for early orders in the matter.

ORDER NO.PWD 14 GTW 62.
Bangalore, dated 4th Dec.1965.

After a detailed consideration of the above proposals, Government direct that:-

1.Assurance and priority for drawal of 150 cusecs of water for the first stage of 60 M.G.D. and 300 cusecs for the second stage of 120 M.G.D. through the power channel from Shivasamudram Anecut to the Netkal Balancing Reservoir for Bangalore Water Supply be given to the Bangalore Water Supply and Sewerage Board.

2.The Mysore State Electricity Board shall enter into an agreement with the Bangalore Water Supply & Sewerage Board for drawing the above requirements of water through the power channel from Shivasamudram Anicut to Netkal Balancing Reservoir.

3.A quantity of 2.8 T.M.Cft. of water be reserved in the Kabini Reservoir to enable supply of 300 cusecs of water to Bangalore water supply for a period of 4 months during summer. Proportionate cost of storage of 2.8 T.M.Cft. of water be paid by the Bangalore Water Supply & Sewerage Board to Government to be given credit to the cost of Kabini Reservoir Project.

By Order and in the name of the Governor of Mysore,

Issued
Dated 4/12/65

M Channappa 4/12/65
(M.Channappa)
Deputy Secretary to Government,
Public Works Department(Irrn.).

To-
1.The Chairman,Bangalore Water & Sewerage Board,Bangalore.
2.The Chairman,M.S.E.B.,Bangalore.
3.The Secretary,Labour & Municipal Admn.Department,Bangalore.
4.The Accountant General,Mysore,Bangalore.
5.The Chief Engineer(General),Bangalore.
6.The Chief Engineer,Irrigation Projects,Bangalore.
7.The Chief Engineer,H.E.C.P.Bangalore.
8.The Chief Engineer(General),M.S.E.B.,Bangalore.
9.The Chief Engineer, Bangalore Water Supply & Sewerage Board,Bangalore.

Copy to:-
Power Projects Section/Electrical Section.
Labour Ml.Admn.Department/Weekly Gazette.

ncj/d.31265.

the consulting engineers are anxious to see that this question of water source is cleared up immediately and has requested Government to take early action in the matter.

ORDER NO. PWD 14 GTW 62,

BANGALORE, DATED THE NOVEMBER 1965.

~~xxxxxxxxxxxxxxxxxxxx~~

After a detailed examination of the above proposals, Government direct that ~~since 300~~ cusecs of water corresponding to the four lean months of Cauvery amounted to less than 3 T.M.C. the water requirements of Bangalore Water Supply be drawn continuously through the existing power channel that there shall be priority for supplying water from the Sivanasamudram Anecut to the Bangalore Water Supply Scheme.

(1) Priority for ~~supply~~ drawl of 150 cusecs water in the 1st stage of 60 MGD and 300 cusecs for the IInd stage of 120 MGD through the power Channel from Shivasamudram Anicut to the Netkal Balancing Reservoir for Bangalore water supply purposes be given to the Bangalore Water Supply and Sewage Board ~~Board~~

(2) The Mysore State Electricity Board shall enter into an agreement with the Bangalore Water Supply and Sewerage Board ~~for the Board~~ for drawing its above requirements of water through the power channel from Sivanasamudram Anicut to Netkal Balancing Reservoir.

(3) A ~~Capacity~~ storage of 2.8 T.MCft water be reserved in the ~~proposed~~ Kabini Reservoir to enable supply of 300 cusecs water to Bangalore water supply ~~during the lean~~ period of 4 months during Cauvery ~~lean~~ stage. proportionate ~~cost~~ of 2.8 T.MCft water be paid by the Bangalore Water Supply and Sewerage Board to Govt. to be given credit to the Cost of Kabini Reservoir project

BY ORDER ETC.,

Dy.Secretary to Government,
P.W.D.(Irrigation)

To:
The Chairman, B.W.S. & S Board, Bangalore.
The Chairman, M.S.E.B. Bangalore.
The Secretary, Labour and Municipal Admn.Dept,, Bangalore.
The A.G. in Mysore, Bangalore.
The C.E. (General) Bangalore.
The C.E. IP, Bangalore.
The C.E. HECP, Bangalore.
The C.E. (General) M.S.E.B. Bangalore.
The C.E. B.W.S. & S Board, Bangalore.

copy to;
Power Project Section - Electrical Section - Labour Municipal Admn.Dept. - Weekly Gazette - S.G. file.

Proceedings of the Tech. Sub Cttee of Bgm
MWD.

Subject:- Bangalore water supply and Sewerage project - Assurance of water supply from Sivasamudram Ancut - Reservation of Storage Capacity of Kabini Storage dam for Bangalore water supply - Orders thereon ...

1) Proceedings of the meeting of ⊗ Tech. Sub-Committee of M.I.P.C. Board held on 29.8.62.

Ref:- 2) Proceedings of the 18th meeting of the Technical Sub-Committee of Bangalore water supply and Sanitation Control Board held on 12.10.63

3) Correspondence resting with letter no. BWSSB 2691/65 dated 17.9.65 from the Chairman B.W.S.S. Board. Plan on the subject.

4) Correspondence ending with letter KRP/92/TA3/1093 dt 2.11.65 from the Chief Engineer I.P. Bgm on the matter.

—

Preamble:-

The Technical Sub-Committee of the Bangalore water supply and Sanitation Control Board has opined that the power channel from Sivasamudram Ancut upto Kalkere Balancing

pdso

Reservoir has a discharging capacity of 500 cusecs whereas 300 cusecs are only required for the generation of power at Shivasamudram; hence there would be adequate surplus capacity in the channel for drawing even upto 120 MGD or more. They had therefore recommended that the water requirements in the Bangalore water supply scheme may be drawn thro' the power channel and the water supply requirements should have first priority over the requirements of power generation at Shivasamudram.

In the project report of the Kabini dam a provision of 1,200 M.C.ft of water is made for Bangalore water supply from the Kabini reservoir, after taking into account the direct irrigational needs, power drawoff, evaporation losses and carry over etc.

In the M.I.P.C. Board meeting held on 29.8.1962, this matter was also discussed. Considering the availability of water at Kabini Reservoir, the Board had resolved that provision be made for reservation of 1.2 T.M.cft for supply of water to the Bangalore water supply

Proceedings of the Meeting of Tech-
nical Sub-Committee of M.I.P.C. Board held on 28.8.62.

Subject:- Bangalore water Supply and Sewerage Project - Assurance of water Supply from Sivasamudram Ancut - Reservation of Storage Capacity of Kabini Storage dam for Bangalore water Supply - Orders thereon ...

Ref:- 1) Proceedings of the meeting of the Technical Sub-Committee of Bangalore water Supply and Sanitation Control Board held on 12.10.63

2) Proceedings of the 18th meeting of the Technical Sub-Committee of Bangalore water Supply and Sanitation Control Board held on 28.8.62.

3) Correspondence resting with letter No. BWSSB 2491/65 dated 17.9.65 from the Chairman B.W.S.S.B. Board. Plan on the subject.

4) Correspondence ending with letter No. KRP/92/TA3/1093 dt 2.11.61 from the Chief Engineer D.P. Plan on the matter.

Preamble:-

The Technical Sub-Committee of the Bangalore water Supply and Sanitation Control Board has opined that the power Channel from Sivasamudram Ancut upto Nellikai Balancing pond

Scheme and thus reduce the project cost to the extent of the cost of storage of water that will have to be paid by the Corporation authorities

~~The Chairman Bangalore water supply and Sewerage Board has been pressing for~~

The above subject was discussed in the Chambers of the Minister in detail when the Chairman, M.S.R.T.C. Chairman B.W.S.&S. Board, C.E. P.W.D. Mysore and the C.E. B.W.S.&S. Board were present. This matter was further discussed in the Chief Minister's Chambers during the progress of Mysore water supply and Sewerage works when the Minister for M. Admn and the Minister for PWD as also the Secretaries Govt were present. The need for issue of Govt order assuring supply of 60,000 Cusecs of water for the Mysore water supply and Sewerage Board during the 1st stage and (2) an additional 150 Cusecs later on for the 2nd stage (300 Cusecs in all) from the power channel from Shivasamudram Anicut to the balancing Reservoir was explained. It was pointed out that the water Board authorities and the Consultants were both pressing for this guarantee

regarding the source of water as this had to be got incorporated in the project report urgently.

The Chairman B.W.S.&S. Board. Bylaw Kaypalaiah that (*) ~~has been urging for a Committee and discussions of now in the matter because~~ (*) the World Bank authorities and the Consulting Engineers are anxious to see that this Question of water No PWD/41 GTW 62 Source is cleared up immediately so as to be able to give a definite decision on the matter

~~In a few proposals, been~~

After a detailed examination of the alone proposals, ~~it has decided~~ two direct that, since 300 cusecs of water corresponding to the first Cleanings of Cauvery amounts to less than 3 T.M.C., the water requirements of Bangalore water supply continuing be drawn ~~through~~ through the existing power channel ~~and~~ but there shall be priority for supplying water from the Sivasamudram Dam to the Bangalore water supply scheme.

~~Negotiations with the Consulting Engineers Report of the deputation Cost of the Bridge on power channel be paid by the Bangalore~~

The Mysore State Electricity Board shall enter into an agreement with the Bangalore water supply and

from Sivasamudram Bridge to Kollegal Balancing Reservoir

Sewerage Board for the letter
Board for drawing its above
requirements. I would thus be power
Channel from Bhiwandi area Bhiwandi
to Metro Balancing Reservoir.

Yours dear etc

D/S (?)

To

The Chairman B.W.S.S.B. Board Bombay
The Ex. Engr. Lakes & M.M. Adm. Dept. Bombay
The W.E. - Mumbai Bombay
The C.E. (M), Bombay
The C.E. D.P. Bombay
The C.E. H.E.P. Bombay
The C.E. (M), M.S.E.B. Bombay
The C.E. B.W.S.S.B. Board Bombay

Copy to

i) Power project Section
ii) Elec. Section
iii) Lakes & M.M. Adm. Dept.
iv) Water Supply
S.E. Jetty M

470

Variations between the Consultants' Copy (a) and the Mysore Government Stencilled Copy (b) of

Memorandum of Agreement

Items.	Reference to Consultants Copy		(a)	(b)
1.	Page 1.	Para I line 7 8th word.	Called	referred to as.
2.	Page 5.	Para IV Sub-para 3 clause 2) line 2 word 8.	II (1) (B)	II (1) (B) (C).
3.	Page 5.	Para IV Sub-para 3 clause 3) word 8.	II (1) (B) (c)	II (1) (B).
4.	Page 7.	Para V (a) line 2 i.e. 1st line on page 7.	(2) and (3)	(2) (3).
5.	Page 7.	Para V (d) line 1 word 10.	annum	anum.
6.	Page 7.	Para V (d) line 4 words 4 to 6.	(b) and (c)	(b) (c).
7.	Page 11.	Para XI Line 5 on page 11 words 5 to 8.	Whole or any part.	Whole of any part.
8.	Page 12. (11)	Para XIII lines 3.	by him..... discretionary.	(These words ar repeated in th Government cop
9.	Page 12.	Para XVI line 5 word 5.	tablets.	tables.
10.	Page 12.	Para XVIII line 6.	90 days written notice.	90 days notice

.....

19.7.65

Please put in the Departure W.S. File

D.C. (I.)

JOINT SECRETARY TO GOVT. No. L/204/64 16 NOV 1964 PUBLIC WORKS DEPARTMENT

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

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SM G Sekar 11/11/84

P.T.O

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MGSP [illegible] (O Telegraph (DGPT-63)—SPS/S-1/31/13—(C-Book)—6 5-64—5,00,000 Bks.

P.T.O

The main file No PWD 141 GTW62 has been sent to L.D. Vishwanathan
copy placed in the main file after
return from L.D. To remind L.D. on 4/12

472

Proceds of the Govt of Mysore

Sub: Water Supply – Bangalore Scheme
-- Supply of water from the Power channel from Sivasamudram Amount to Nekkal Balancing Reservoir – and reservation of water at Kabini Storage Dam for the Bang. W. S. Scheme
— Orders on

Read: (1) Proceds of the 1st meeting of the Technical Sub-Committee, Bangalore W. S. & Sanitation Control Board held on 12-9-63.

Preamble: The Technical Sub Committee of the Bangalore W. S. & S. Control Board had observed that the Power Channel from Sivasamudram Amount upto Nekkal Balancing Reservoir, has a discharging capacity of 900 ~~cus~~ cusecs. whereas, 300 cusecs are only required to the generating power at Sivasamudram. This would be a definite surplus capacity in the channel for drawing even upto 200 MGD ~~cus~~ ~~less~~ or more. (illegible) mention recommendations of the Water Supply

for the Bangalore W.S. Scheme should have first priority over the requirements of Power generation at Sivasamudram.

In the Project Report on the Kabini Dam, it is seen that 1200 M.G.L. of water is available for Bangalore W.S. in the Kabini Reservoir, after taking into account the direct impounded rainfall, known draw off, evaporation loss, and carry over storage. The H.P.C. Board vide its 29.8.52 has recently discussed this excess availability of water at Kabini and have reserved in Provision to make to the H.P.C. Sir, received from Cauvery for supplying water to the Bangalore W.S. Scheme, and has ordered the Project Report to be revised at the cost of Power. Water. But now have to be paid by the Corporation Authorities.

G.O. No. PWD. 4 GTW. 62 Dated

ORDER:-

In view of the assurance that data water will be released from the Power of the Sivasamudram Project to be

Proceedings of the Govt. of Mysore

Sub:- Water Supply - Bangalore Scheme - supply of water from the Power channel from Sivasamudram Ancient to Nittur Balancing Reservoir - and reservation of water at Kabini Storage Dam for the Bang. W.S. Scheme - Orders on -

Read: (1) Proceedings of the 1st meeting of the Technical Sub-Committee, Bangalore W.S. & Sanitation Control Board held on 12-9-63.

Preamble:- The Technical Sub-Committee of the Bangalore W.S. & S. Control Board had observed that the Power channel from Sivasamudram Ancient upto Nittur Balancing Reservoir, has a discharging capacity of 300 ~~cusecs~~ cusecs. whereas, 300 cusecs are only required for the generation of power at Sivasamudram. There would be adequate surplus capacity in the channel for drawing even upto 200 MGD ~~or~~ ~~even~~ or more. They had therefore recommended that the Govt. of

least of 120 MGD, the Govt. circle
that this should be given priority in water
supply from the Jerusalem Dam
to the Bayan Hill Colony,
subject to the Commission
approving the Scheme
the Government would consider
the question of the Scheme
in the light of the Report

It is also very important that
a reservoir should be made for 1.2 T.H C.M
water for recreation from the
Kedron Dam for bathing purposes to the
people of Palestine

By order.

D 127/90/M9/65
10.3.65

File No PWD 141 GTW 62 received
P25D 62 BR A63
from the Special Irrigation section.

X Flag 'D'.

It is stated in the proceedings of the meeting of the Technical sub-committee of MIPC Board on 29.8.1962 (in claim note relating project) placed in the above file that an increased storage 12 TMC ft to 19 T.M.C. ft there is a provision for a second crop to an extent of 20,000 acres under Hulahalli and Peddavanka canal. But nothing has been stated whether to a summer crop or not. This information may perhaps be called for from the C.E. I.P. to answer the claim in of para 217

17/3/65

NOTES

MYSORE GOVERNMENT SECRETARIAT

File No. PWD 50 KGL62

Department of PW

PUBLIC WORKS DEPARTMENT
(MAJOR IRRIGATION)
Mysore Government Secretariat,
Vidhana Soudha, Bangalore.

Section M1

Subject: Constitution of Inter State Soil Conservation Boards in respect of Soil Conservation in Catchment of river valleys

References:

Date	To whom sent	Notes and instructions

Notes pages 10
Correspondences pages 18
C/B Class "B"
For/Not for Section Note Book
To be destroyed after

11.163
Dy Under Secretary to Government.

31/5/62
5/11/62

3/1/63

Serial No.

1) Letter no. DW. V. 171 (3)/62-III dated 26.5.62 from the Ministry of Irrigation & Power, New Delhi forwards a copy of the Draft Constitution reg. Inter State Soil Conservation Boards etc.

2) Submitted for perusal. A copy of GoI's letter with its enclosures will be forwarded to the CE (PP) for remarks. A draft put up is for approval.

31/5/62

3) The G.o.I letter and its enclosures at pages 1-3 c.f. are for perusal. It appears from those that if a Soil Conservation Board has to be set up, action has to be taken by the A&F Dept.

Submd: for orders.

31/5/62

For f.o. necessary action.

A&F Dept)

1.6.62

AF No. 3635 pt 48
4 JUN 1962
AGRI. & FOREST DEPTT. (AGRICULTURE)

4) Please see the letter of the G. of I on pp 1 of and reminder on pp 7 of. The G. of I. suggest that an Inter-State Soil Conservation Board may be set up by the Govt for the Nagarjuna Sagar Project. But

2/6/62

Note.—Contn. Sheet

Inter-State Soil Conservation Board

File No. AF 3635 of 196 ..

Mysore Government Secretariat

Serial No.

the latter project is being executed by the Andhra Govt. Hence no action seems to be necessary. If approved, the ~~Ch. Secy~~ G.O.I. may be informed accordingly. A draft letter is put up for approval. As the G.O.I. letter was addressed to the Secy Irrigt, that ~~dept~~ Deptt may see before the letter is issued.

MRG 4

20/7/62

5) The letter ~~on page 1 CA~~ together with the proceedings may be forwarded to the DA for his views in the matter. Draft may be put up accordingly.

20/7

Sd/-

Ref: Letter No. SEN-44-Fcll/62-63 dt. 17-8-62 from the DD (Irr) (Irr 13)

6) Please see the DO letter from the DA stating that the suggestion of the G.O.I. to form an inter-state Soil Board in respect of soil conservation in Catchments of various river Valley Projects is welcome as it helps the Govt to take up soil conservation measures on a large scale.

Irr 13 G

Irr 1 G

constitution of Inter-State Soil Conservation Board

Mysore Government Secretariat

File No. 50 MAL 61 of 196 AF 3635 Pl 62

[App. F. III 2

Serial No.

But the G.O.I. in their letter at Ht of have requested this Govt to initiate action towards the constitution of a Board for the Nagarjunasagar Project, and seek for central assistance. But the Nagarjuna Sagar Project pertains to the Andhra State and this Govt is not concerned with the same. Subject to approval a draft letter to the G.O.I is put up in lieu of the reply of the JA

M 15/9

22/8/62 7) The PWD Dept may see the reply before the issue of the letter as the G.O.I. letter was addressed to that Dept.

8) Please see the letter of the Govt of India dated 26.5.62. It refers to the Constitution of Inter State Soil Conservation in Catchment Area of various River Valley Projects in General and does not appear to confine only to Nagarjuna Sagar Project.

9) For orders as to whether the views expressed by the DA may be accepted and Communicated to the Govt of India, after consulting the P.W. Dept

22/8/62

MYSORE GOVERNMENT SECRETARIAT No. 5077 - 4 SEP 1962 P.W.D. (BUILDING SECTION)

10) PWD may kindly see for remarks

29.8.62

28.8.62 US(P) AR

PWD

11) Please see paras 8 to 10 above and the Director of Agriculture at Page 13 CF. This department may agree to the views expressed by the Director of Agriculture and the file returned to A+F Dept for needful action.

12) OSD may pl see for remarks

1.9.62

Note.—Contn. Sheet

Serial No.

13) Some time back the Government of India had been proposing setting up of an Inter-State River Board for Krishna and Godavary basins, under the Inter-State River Board Act, 1956. This State as also most of the other States like Maharashtra etc. have not agreed thereto on the main ground that in absence of agreement on water allocations, the Board will not be able to function in its main task viz. regulation of waters. One of the other functions of these River Boards is advising the States on the Soil Conservation measures.

14) After having failed to institute a River Board for Krishna and Godavary basins, the Government of India seem to have thought of 'Soil Conservation Board' for Nagarjunsagar Project. The catchment area of this project practically comprises the entire Krishna Basin to which Mysore contributes about 45%. Therefore, before considering acceptance of such a proposal we have to think seriously about the utility and implications of such a Board. The soil conservation measures are to be taken by each State in its own territory, as made quite clear in clause (d) of the constitution of the Inter-State Soil Conservation Board for Pubjab and Himachal Pradesh (Vide P-3 CF), wherein it has been stipulated that "while actual implementation of the soil conservation programme shall be carried out by the respective State Governments concerned in their territorial jurisdiction through their own agencies, the Board will .....". This clearly shows that the actual brunt of the work and the finances etc. would be borne by the State Governments and what this Board would do is obviously in the nature of co-ordination and laying down policy etc. as further mentioned in

Serial No.

clause (d) of the Constitution. Under the circumstances let us not be under any illusion that the Board would execute and finance these works for the State Government.

15) The detailed sub-clauses under clause (b) - Secretariat, indicate that the Board personnel would be of a composite nature comprising State personnel from various States. In this case as the work is to be done by each State in their own territory with their own money, ~~and~~ justification for such a composite personnel is not quite understandable. This would only add additional financial burden to the States and provide an opportunity for prying* into each others affairs.

16) This Board is reportedly meant to benefit the Nagarjuna Sagara Project by arresting the siltation therein by means of soil conservation measures taken up in the catchment extending over 83,000 square miles or more, 60 per cent of which is in Mysore State. Inspite of this fact, it is nowhere indicated that the cost of these measures would be borne by Andhra Pradesh Government. Under the circumstances, there does not seem to be any reason as to why Mysore or Maharashtra should agree to form such a Board along with Andhra Pradesh representatives.

17) In view of what is stated above, it is felt such a Board would be an un-necessary addendum to the administrative machinery and burden to the exchequers

Note.—Contn. Sheet

* It may be recalled here, that A.P. has already represented to Krishna-Godavary Commission, that the soil conservation measures taken up by Maharashtra & Mysore result in abstraction of waters & the Commission should assess the same.

File No. of 196 5077/86

Mysore Government Secretariat

Serial No.

of the States. The need for soil conservation measures is keenly felt by all States, irrespective of the projects, either in their own State or lower down. State Governments could ~~not~~ be relied upon to take the necessary measures. Therefore there is no reason as to why co-ordination in respect of method and experience should not be conveniently done by (i) the Central Water and Power Commission or the (ii) Planning Commission or even (iii) the State authorities themselves by mutual correspondence, discussions and visits. Under the circumstances, it seems unnecessary and undesirable to agree to participate in the proposed Soil Conservation Board for Nagarjuna Sagara Project, and Government of India may please be informed accordingly, if approved.

18) However, it may please be seen whether it is desirable to empower the State Development Commissioner to further coordinate and direct the activities of the (a) Director of Agriculture and (b) Chief Conservator of Forests (both of whom are already under one Government Department).

6/9/62
(S.G. Balekundry)
Officer on Spl. Duty,
PUBLIC WORKS DEPARTMENT.

Secy

WD-010154—GPB—PZS—8,00,000—1-10-61

Serial No.

18) It is not clear why the Government of India has suggested the creation of an Inter-State Soil Conservation Board only with reference to the protection of Nagarjunsagar. There are and there will be a number of reservoirs on the Krishna and its tributaries and undoubtedly in principle it is necessary to take soil conservation measures in the catchment area so as to ~~provide~~ prevent infiltration of ~~soil~~ silt into these reservoirs. This is a composite problem which concerns all the adjacent States and certainly in due course some co-ordinated measures will have to be taken up by the three States concerned to see that a programme of soil conservation measures is taken up. But it is really annoying to find that the provocation for suggesting a Board at this stage is only the protection of the Nagarjunsagar Reservoir. So far as this project is concerned we have stoutly opposed the second stage of the project and to think of taking soil soil conservation measures for protecting the reservoir at Nagarjunsagar would not be consistent with our own stand.

19) In the summary of recommendations of the Gulhati Commission which is just received a number of suggestions have been made for inter-state co-operation and inter-state basinwide development of irrigation and power potential and general economic prosperity of interstate rivers. The soil conservation measures to be taken by the three States concerned under the Krishna would naturally form part of these co-operative measures. The point which we have emphasised time and again is that all these co-operative actions can only commence after a fair and amicable solution is reached of the river water allocations. Once the allocations

Serial No.

are made several steps will be taken such as the formation of inter-state river board, soil conservation board and various other institutions to see that the basinwide development is done in a mutually satisfactory manner.

In the meanwhile, the State Government is pursuing its own scheme of soil conservation and Plan provision for this purpose has been included in the overall scheme for improvement of scarcity areas, the Revenue Minister has also suggested a large quota for contour bunding and other soil conservation measures. (20

We will inform the Government of India accordingly. (21

86 15
24/9

✓ 24/9.

C. M.)

P. J. FERNANDES,
Secy., P.W. & Elecy.

22) Put up the draft
Let me see before issue
26/9/62

P.W. Secy)

23) 27/9

DST

SECRETARY TO GOVERNMENT
No. 91419
22 SEP 1962
PUBLIC WORKS & ELEC. DEPT.

SECRETARY TO GOVERNMENT
No.
PUBLIC WORKS

5511.

Serial No.

18) It is not clear why the Government of India has suggested the creation of an Inter-State Soil Conservation Board only with reference to the protection of Nagarjunsagar. There are and there will be a number of reservoirs on the Krishna and its tributaries and undoubtedly in principle it is necessary to take soil conservation measures in the catchment area so as to ~~provide~~ prevent infiltration of ~~soil~~ silt into these reservoirs. This is a composite problem which concerns all the adjacent States and certainly in due course some co-ordinated measures will have to be taken up by the three States concerned to see that a programme of soil conservation measures is taken up. But it is really annoying to find that the provocation for suggesting a Board at this stage is only the protection of the Nagarjunsagar Reservoir. So far as this project is concerned we have stoutly opposed the second stage of the project and to think of taking soil soil conservation measures for protecting the reservoir at Nagarjunsagar would not be consistent with our own stand.

19) In the summary of recommendations of the Gulhati Commission which is just received a number of suggestions have been made for inter-state co-operation and inter-state basinwide development of irrigation and power potential and general economic prosperity of interstate rivers. The soil conservation measures to be taken by the three States concerned under the Krishna would naturally form part of these co-operative measures. The point which we have emphasised time and again is that all these co-operative actions can only commence after a fair and amicable solution is reached of the river water allocations. Once the allocations

Mysore Government
Secretariat

Constitution of Inter-State Soil Conservation Boards in respect of soil conservation in catchment of River Valleys [App. F. III 2

File No. PWD 50 MGL 62 of 196

5511/86

Serial No.

pages 16 & 17 ex

24) A draft letter to the Secretary to the Government of India, Ministry of Irrigation and Power is placed below for approval.

(S.G. Balekundry) 4/10/62
Officer on Special Duty,
Public Works Department.
(4/10/1962.

Secretary, P.W. & E.

Chief Minister

24) Para 2, I feel may be omitted.

S/10
P. J. FERNANDES,
Secy., P.W. & Elecy.

Chief Minister

25) The Board can not be constituted for any particular scheme like Nagarjunasagar. The entire River Valley should be the subject matter of deliberation of the Board after each state has finalised its own soil conservation scheme. As suggested by Sy. PWD & Para 2 of the draft may be omitted

11/10/62

P.W. Secy.) 26) 15/10.

Issued
Encls. Nil
Date 22.10.62

SECRETARY TO GOVERNMENT
No.
15 OCT 1962
PUBLIC WORKS & ELEC. DEPT.

Note. Contn. Sheet No.

MYSORE
D. H. D. (BUILDING)

SECRETARY TO GOVERNMENT
M I 1467
PUBLIC WORKS & ELEC. DEPT.

OFFICE OF THE CHIEF MINISTER
3898
19 OCT 1962
BANGALORE

File No. of 196 · 55111/86

Mysore Government Secretariat

Serial No.

27) The file may now be returned to H. I. section

23/10/62

25/10/62

D.S.(I.)

28) Submitted for perusal the letter issued to the Govt of India. In view of paras 8 to 10 it is for orders whether we may transfer the file to the A+F Deptt for taking further action, as tol conservation is a subject relevant to A+F Deptt.

26/10

The notes from paras 18-25 and the letter at p. 18 cf. Sent to the G.o.I are for perusal. In view of the Repy Sent to G.o.I no further action appears necessary on this file. For orders whether this may be closed as a 'B' Record.

30/x/62

B Record

5/11

WD-010154—GPB—PZS—8,00,000—1-10-61

SEPARATOR

No.DW.V171(3)/62-III
Government of India
Ministry of Irrigation and Power.
****

MYSORE GOVT. SECRETARIAT
No. 4465
30 MAY 1962
PUBLIC WORKS (MAJOR IRRIGATION)

From

Shri B.K. Singh,
Under Secretary to the Government of India.

To

The Secretary to the Govt. of Andhra Pradesh,
Agriculture Department, Hyderabad.

The Secretary to the Government of Maharashtra,
Irrigation and Power Department, Bombay.

The Secretary to the Govt. of Mysore,
Public Works and Electricity Department,
Bangalore.

MYSORE GOVT. SECRETARIAT
29 MAY 1962
PUBLIC WORKS DEPARTMENT

New Delhi, the 26 May 1962.
Jyaistha 1884.

Subject:- Constitution of Inter-State Soil Conservation Boards in respect of soil conservation in catchments of various River Valley Projects.- NAGARJUNASAGAR.

Sir,

I am directed to say that the question of constitution of Inter-State Soil Conservation Boards in respect of soil Conservation in catchments of various River Valley Projects has been examined by this Ministry in consultation with the Central Water and Power Commission and the Union Ministry of Food and Agriculture. In order to achieve early results in the direction of soil conservation measures, it is considered advisable that the State Governments should set up an Inter-State Soil Conservation Board, like the one set up by the Governments of Punjab and the Himachal Pradesh in the case of the Sutlej and the Beas Basins. The constitution of that Board has been drafted and is being finalised. A copy of the draft constitution is enclosed for ready reference. I am, therefore, to request that, if the State Government agree to this proposal, they may kindly initiate action towards the constitution of such a Board for the Nagarjunasagar project. The Central Water and Power Commission (Director, Soil Conservation) may be approached if any assistance is required in the matter.

Yours faithfully,

(B.K. Singh)
Under Secretary to the Government of India.
Tele: No. 33056.

Item No. 1.1. Appendix 'A' VIII-Meeting.

Proceedings of the meetings of Sub-Committee on Draft Constitution of the Board, held on 12th September and 28th October, 1961.

PRESENT

1. Shri O.N. Misra, I.A.S., Chief Secretary, Himachal Pradesh.

2. Shri N.R. Chopra, I.A.S., Commissioner Hill Areas, Punjab — on 12.9.61.
His representative. — on 28.10.61.

3. Shri K.S. Narang, I.A.S. Secretary Agriculture, Punjab.

4. Shri T.S. Negi, I.A.S., Development Commissioner, Himachal Pradesh.

5. Shri G.S. Dhillon, PFS(I) Chief Conservator of Forests, Punj

6. Shri V.P. Aggarwal, AIFC, Chief Conservator of Forests, H.P.

After details deliberations the Sub-Committee finally arrived at the following draft constitution for being placed bef the Board for adoption:-

CONSTITUTION OF INTERSTATE SOIL CONSERVATION BOARD PUNJAB AND HIMACHAL PRADESH.

Preamble.

With a view to safeguard the reservoirs of Bhakra an Pong Dams against accellerated silting up by ensuring a coordina and expeditions execution of adequate and effective soil conserv measures in a planned way in the Sutlaj and the Beas catchments within the territories of Punjab and Himachal Pradesh, the Governm of Punjab and Himachal Pradesh in concurrence with the Govt. of India hereby agree and resolve to set up a common agency for the sa purpose namely It Interstate Soil Conservation Board, Punjab and Himachal Pradesh (hereinafter called the Board). The Constitution scope functions and powers of the Board as mutually agreed to are se out below:-

CONSTITUTION

(a) Membership.

The Board will consist of the following:-

HIMACHAL PRADESH.

1. Lt. Governor, Himachal Pradesh, as Head of Himachal Pradesh Administration.	Chairman.
2. Chief Secretary, Himachal Pradesh.	Member.
3. Finance Secretary, Himachal Pradesh.	"
4. Development Commissioner, Himachal Pradesh	"
5. Chief Conservator of Forests, Himachal Pradesh	"
6. Director of Agriculture, Himachal Pradesh	"

PUNJAB GOVERNMENT.

1. Planning Commissioner, Punjab.	Vice Chairman.
2. Commissioner (Hill Areas), Punjab.	"
3. Finance Secretary, Punjab	"
4. Secretary Agriculture, Punjab.	"
5. Chief Conservator of Forests, Punjab.	"
6. Direct of Agriculture, Punjab.	"

P.T.O.

BHAKRA AND BEAS PROJECT ADMINISTRATION.

1. General Manager, Bhakra Dam. Member.
2. General Manager, Pong Dam.

GOVERNMENT OF INDIA.

1. Adviser Soil Conservation, Ministry of Food and Agriculture, Government of India.
2. Director Soil Conservation, Central Water and Power Commission, Government of India.

Provided that the Board may co-opt such other members as may be deemed fit from time to time.

The Vice Chairman will preside in the absence of the Chairman. In addition he will be responsible for such functions and exercise such authority as may be delegated to him by the Chairman/Board from time to time.

(b) Secretariat.

The Secretariat will be located at Simla at the headquarters of the Chairman.

A whole time officer of the rank of a Conservator of Forest from Punjab Forest Department will act as Secretary of the Board. He will be appointed by the Punjab Government on the recommendation of the Board.

The Secretary may appoint such staff as may be approved by the Board to assist him. The staff will be drawn from the two Stat and where such an arrangement is not feasible the Secretary may make direct recruitment.

For uniformity the pay scales, allowance, leave and medical facilities of Himachal Pradesh Administration will be adopted, provided that in special cases the Board may allow relaxation. Travelling allowance Rules of Himachal Pradesh Administration will be applicable, provided that special daily allowance and mileage rates for specified areas in Punjab and outside the two states will also be allowed. Employees of the Board will be entitled to medical treatment from both the States. Leave and pension contribution shal remain liabilities of the parent state of the employees.

Subject to the foregoing paragraphs, the Chairman and the Secretary will exercise the powers of Government and Head of Department respectively in matters relating to T.A. other financial matters pertaining to establishment and discipline, subject to the condition that the following punishments shall not be imposed except after consultation with the appointing authority in the parent department:-

(1) Reduction to a lower service, grade or post, or to a lower time scale, or to a lower stage in a time-scale.
(2) Compulsory retirement.
(3) Removal from service which shall not be a dis-qualification for future employment.
(4) Dismissal from service which shall ordinarily be a disqualification for future employment.

Acting under the overall control of the Chairman the Secretary will correspond with the Government of India, Governments of Punjab and Himachal Pradesh and their departments on behal of the Board. He will be responsible to collect all necessary data reports and information pertaining to the functions of the Board and lay them before the Board for information and decision where necessary.

Contd...../3-

(c) Scope.

The Board will for the time being confine its functions to the Sutlej and the Beas catchments but it may agree to include such other catchments as considered necessary.

(d) Functions.

While the actual implementation of the Soil Conservation programme shall be carried out by the respective State Governments concerned in their territorial jurisdiction through their own agencies, the Board will not only coordinate these programmes but will to the extent necessary, also direct these operations and lay down policy on the basis of which they are developed and executed. In discharge of these functions the Board shall review the programme from time to time and may make concrete suggestions in regard to any particular measures and the manner in which it should be undertaken. While it would be for the respective state Governments to carry out the decisions of the Board, it would be the normal convention to accept and carry out these decisions. Subject to the above and without prejudice to the generalities in the preamble, in particular the functions of the Board shall be:-

1. To consider all matters relating to and concerning soil conservation activities in the catchments to develop a uniform and coordinated policy with a view to advise the two states.

2. To lay down the policy for developing and organising the annual as well the periodical soil conservation programmes including matters like training of personnel and conduct of research.

3. To provide a forum of bringing together the opinions of the two state Governments and the Government of India to enable expediting of the schemes and programmes.

4. To control and direct investigations, including surveys and planning of soil conservation works.

5. To periodically examine the progress of works and results achieved to ensure proper implementation and to give such advice or directions as deemed fit.

6. To provide a forum for sharing technical and administrative experiences which may be compiled and communicated to the field in the form of technical notes bulletins and journals.

7. To resolve difference, between the two State Governments arising at technical level on the suitability, adequacy or feasibility of any important aspect of soil conservation matters and policy of the two State Governments.

8. To examine from time to time the delegation of technical administrative and financial powers, in the Forest and Agriculture Departments, for the efficient execution of the programme and advise the State Governments where modifications are considered desirable.

9. To examine and where necessary lay down standards and specifications of various classes of works with a view to sound and efficient execution of the programme.

10. To collect, compile and furnish statistics pertaining to soil conservation programmes in the catchments.

11. To advise the State Governments on any other matter concerning soil conservation in the River Valley Catchments.

P.T.O.

5

Appendix F. G.—1]

SUBJECT: Constitution of Inter State Soil Conservation Boards in respect of Soil Conservation in Catchments of Barione River Valley Projects

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 195 :

Date of issue.....

Signed by.....

List of enclosures .....

Copied by.....

Examined by .....

Section

File No.

Serial No.

The CE (SP)

No.

To Sir,

I am directed to forward herewith a copy of GoI's letter no. DW. IV B 171 (3)/62-III dated 26.5.62 along with a copy of its enclosures on the subject and to request you kindly to offer your remarks on the suggestion made therein for consideration of Govt.

Yours faithfully

Copy with copy of its enclosures

WD 04696 GPB PZS 5,00,000 22-3-60

forwarded to the Aff. Dept. for

needful action.

[illegible] for [illegible]

[illegible]

No.BW.V.171(3)/62
Government of India
Ministry of Irrigation & Power

MYSORE GOVT. SECRETARIAT
No. 5719
9 JUL 1962
PUBLIC WORKS (MAJOR IRRIGATION)

From

Shri B.K. Singh,
Under Secretary to the Govt. of India.

To

1. The Secretary to the Govt. of Andhra Pradesh, Agriculture Deptt., Hyderabad.
2. The Secretary to the Govt. of Maharashtra, Irrigation & Power Deptt., Bombay.
3. The Secretary to the Govt. of Mysore, Public Works & Electricity Deptt., Bangalore.

New Delhi, the July, 1962
Asadha 1884

Subject:- Constitution of Inter-State Soil Conservation Boards in respect of Soil conservation in catchments of various River Valley Projects - NAGARJUNASAGAR.

Sir,

I am directed to refer to this Ministry's letter of even number dated the 28th May, 1962 on the subject mentioned above and to request the favour of an early reply.

Yours faithfully,

(B.K. Singh)
Under Secretary to the Govt. of India.

M:4.7.

File bearing no. Fwd 50 MGL 62 on the subject has been referred to the A&F Dept on 1-6-62. This may also be referred to that department for indicating the action taken thereon & for sending a reply to the Govt of India.

A&F Dept

11/7/62

12/7/62

M Rao

MYSORE GOVT. SECRETARIAT
16 JUL 1962
AGRI. & FOREST DEPT. (TAPPAL SECTION)

MY
DIARY NO 48 70 PH
18 JUL 1962
AGRI. & FOREST DEPTT. (AGRICULTURE)

Appendix F. G.— 1]

SUBJECT on at hm 1 y

Diary No. of letter replied to

Mysore Government Secretariat.

( )

the 195 .

Date of issue

Signed by 4/6/62

Section

File No.

Serial No.

No.

To

The DA

B'lw.

Sir,

I am to enclose copy of letter No. DW II 171 (3) 62 — III dt 26th May 1962 from the U.S. G.J. and to request you to offer your remarks in regard to the setting up of Inter-state Soil Conservation Board with endorsements

hh 1-8 y

List of enclosures

Copied by

Examined by

Yours faithfully

U.S. 31/7

U.S. G.S.W.

ASP

7-62

WD 04696—GPB—PZS—8,00,000—22-9-60

A 2617

GOVERNMENT OF MYSORE

No. AF 3636 Pl62/38h. MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 1/8/ *196* 2

FROM

The *Secretary to the Government of Mysore,*
Agriculture and Forest Department.

To

The Director of Agriculture in Mysore,
BANGALORE.

Sir,

Subject:- Constitution of Inter-State Soil Conservation Boards in respect of soil conservation in catchments of various River Valley Projects - NAGARJUNASAGAR.

====

I am to enclose a copy of letter No.DW.V.171(3)/62 [II dated 26th May 1962 with enclosures from the Under Secretary, Government of India and to request you to offer your remarks in regard to the setting x up of Inter-State Soil Conservation Board.

Yours faithfully,

(T.K.Jayarama Ayyar)
Under Secretary to Government,
Agriculture and Forest Department.

ISSUED
Date 1/8/ 196 2

RN,
30/7/62

13

SHRI M. MALLARAJ URS,
Director of Agriculture.

SESHADRI ROAD,
BANGALORE-1.

13

D.O. No: SCN-44-TCH/62-63

MYSORE GOVT SECRETARIAT
No..... Dated 7th August 1962.
18 AUG 1962
AF-5760
AGRI. & FOREST DEPTT. (AGRICULTURE)

Dear Sri.Jayarama Ayyar,

Sub: Constitution of Inter-State Soil Conservation Boards in respect of soil conservation in catchments of various River Valley Projects - Nagarjunasagar.

Please refer to your No.AF.3635 PL62 dated 1-8-62 on the above. In reply I wish to inform you that the suggestion to form an Inter-State Soil Conservation Board in respect of soil conservation in catchments of various river valley projects is very welcome as it will help us to take up soil conservation measures on a comprehensive scale.

PSM

Yours sincerely,
M. Mallaraj Urs

Sri.T.K.Jayarama Ayyar, B.A.,
Under Secretary to Government,
Agriculture & Forest Department,
Bangalore.

AF 7862

M. G. S. App F VI—G. 21

SUBJECT: Constitution of Inter-State Soil Conservation Board in respect of Soil Conservation in Catchment of various River Valley Projects — Nagarjunasagar.

Diary No. of letter replied to.....

Mysore Government Secretariat

( )

the 195

Date of issue.....195

Signed by.....

May this be—
(i) printed?
(ii) treated as a Standing Order?
(iii) published in the Gazette, English Part?
(iv) translated?
(v) placed at the disposal of the Press?
(vi) published in the Gazette, Kannada Part?

Section

Serial No.

File No.

~~Proceedings of the Government of~~ Mysore

~~Read~~

To

The U. S.
G. of I.
Ministry of Irrigation & Power.
New Delhi.

Sir,

Order thereon:—No.

With reference to your letter No. IW. V 171(3)62-III dt 26 May 1962 on the subject mentioned above, I am directed to state that the Nagarjunasagar Project belongs to Andhra State, and no action is called for by the State in regard to the constitution of Inter-State Soil Conservation

Board in respect of the
Dam Project. However
the suggestion of the G.O.I.
to form an inter-state
soil conservation Board
in respect of soil conservation
in catchments of various
river Valley projects is
~~[illegible]~~ acceptable
to the Govt, as it helps
to take up soil conservation
on a comprehensive scale.

Yours faithfully

U.S. Govt.
A.P. Govt.
-8-6-

List of Enclosures.

Copied by

Examined by

From

The Secretary to the Government of Mysore,
Public Works & Electricity Department.

To

The Secretary to the Government of India,
Ministry of Irrigation and Power,
New Delhi.

Sir,

Sub: Constitution of Inter-State Soil Conservation Boards in respect of soil conservation in catchments of various River Valley projects - Nagarjunasagar.

Ref: Your letter No.DW.V.171(3)/62-III dated 26th May 1962.

With reference to the above quoted letter, I am directed to inform you that this Government sees no special need for any Inter-State Soil Conservation Board for Nagarjunasagar Project. The catchment at Nagarjunasagar project simultaneously forms catchments of so many other projects in existence under execution or under contemplation in other States. As such, the upper States are equally interested in taking up soil conservation measures in their territory in their own interest. Accordingly this State is taking necessary measures wherever required. ~~Therefore an Inter-Statex Board is superfluous~~.

2. Even if the necessity and desirability of such a Board were to be taken for granted inspite of the above facts, this Government is not prepared to associate itself with a Board for the Nagarjunasagar Project since this Government is basically opposed to the Project as presently conceived. It may be recalled that This Government has been demanding consistently for the last

Issued

Encls.....

Date.....22.10.62

so many years that this project should be replanned on the basis of Andhra Pradesh's legitimate share in Krishna waters and/or surplusses from Godavary that could be diverted via Inchampalli Reservoir.

Yours faithfully,

(P.J.Fernandes),
Secretary to Government,
Public Works & Elec. Dept.

4/10/82

18

GOVERNMENT OF MYSORE

No. PWD 50 MGL 62

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 22nd Octr. 1962.

FROM

The *Secretary to the Government of Mysore,*
Public Works & Electricity Department.

To

The Secretary to the Government of India,
Ministry of Irrigation and Power,
NEW DELHI.

Sir,

Sub: Constitution of Inter-State Soil Conservation Boards in respect of soil conservation in catchments of various River Valley projects - Nagarjunasagar.

Ref: Your letter No.DW.V.171(3)/62-III dated 26th May 1962.

With reference to the above quoted letter, I am directed to inform you that this Government sees no special need for any Inter-State Soil Conservation Board for Nagarjunasagar Project. The catchment at Nagarjunasagar Project simultaneously forms catchments of so many other projects in existence under execution or under contemplation in other States. As such, the upper States are equally interested in taking up soil conservation measures in their territory in their own interest. Accordingly this State is taking necessary measures wherever required.

Issued
Encls. Nil
Date 22.10.62

Yours faithfully,
O/c
(P.J. Fernandes)
Secretary to Government,
Public Works & Elec. Dept.

Sml.18.